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The Chemical Market Authority Since 1871

Volume 151 No. 23 June 9, 1947

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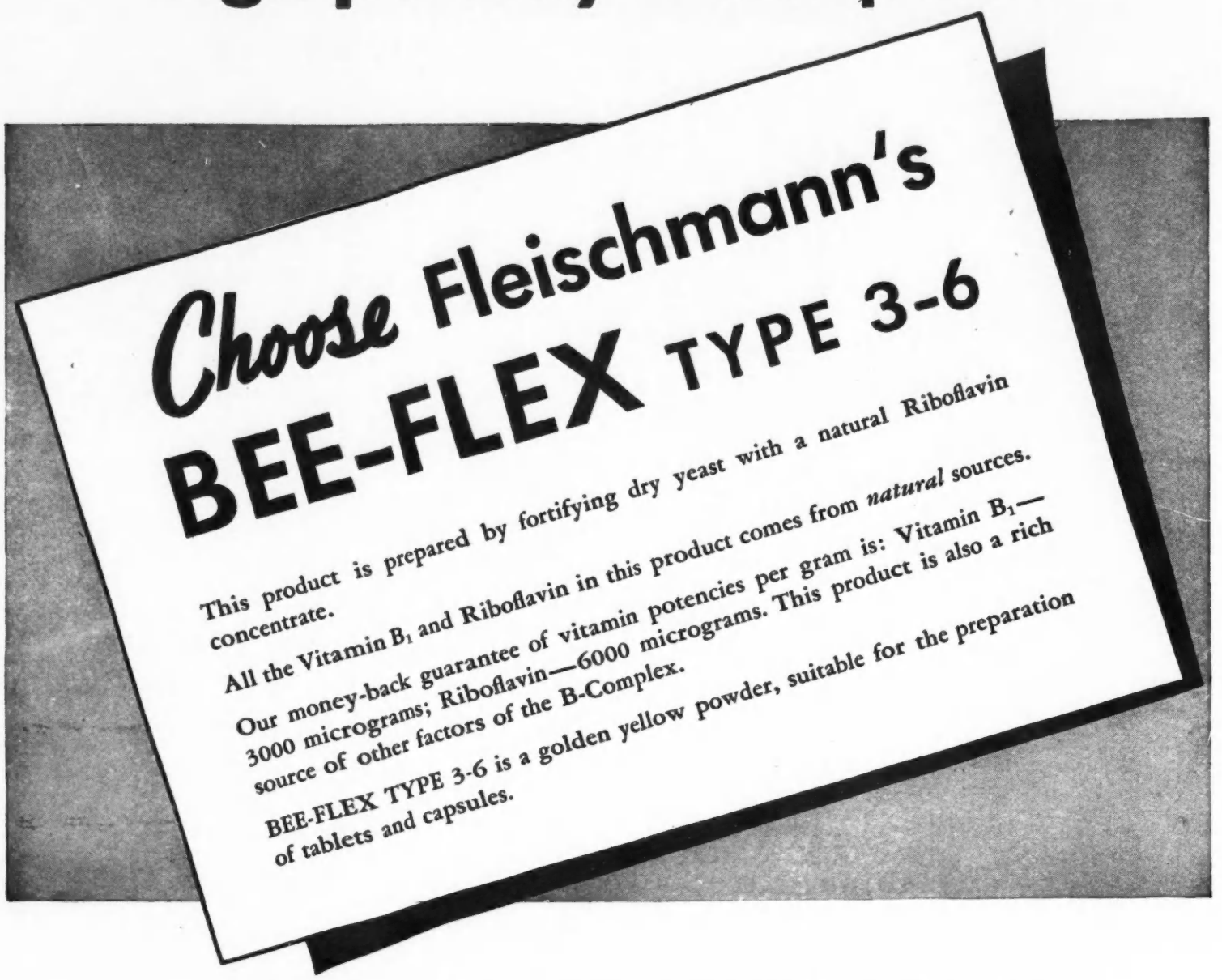
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Oil, Paint and Drug Reporter

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Alcohol Tax Repeal Request Planned

OPD Washington Bureau

Repeal of all existing taxes on alcohol going into the manufacture of drugs and flavoring extracts, and substitution of a permit system that will safeguard the treasury against revenue losses that might otherwise result from a diversion of such alcohol to beverage uses, will be urged of Congress this week by the Proprietary Association of America.

The ways and means committee of the house, which is now holding hearings on a general revision of the entire tax structure—individual, corporation, estate and excise—has tentatively set aside the date of June 10 for taking testimony on non-beverage alcohol taxes. On the same date it will hear proponents of a revision of excise taxes on toiletries and cosmetics.

Under existing law, the drug and flavoring extract producers are allowed a drawback of $6 a gallon on alcohol going into the manufacture of these products. The red tape surrounding the filing and approval of the drawback claim, however, results in few of the companies ever receiving the refund in cash so that it becomes more or less of a revolving fund covering future tax liabilities on alcohol used in the products.

The proposal of the Proprietary Association is to repeal the distilled spirits tax entirely as it applies on alcohol used in drug manufacturing or the production of flavoring extracts

—*Continued on page 49*

Table Salt Shipping Rules Review June 11

A subcommittee of the house interstate commerce committee will hold hearings June 11 on the Bolton bill (H. R. 2717) to prohibit the introduction of table salt into interstate commerce which does not have a required content of iodides.

The bill is an amendment to paragraph (Q) of section 301 of the Food, Drug and Cosmetic Act and prohibits the movement of salt for table use unless it contains suitable iodides in a quantity equivalent to not less than 80 parts and not more than 160 parts of iodine per 1,000,000 parts of such salt. The bill would become effective on the thirtieth day after enactment.

Health Bureau Bill Passes Senate Group

The senate expenditures committee last week approved legislation to create a Department of Health, Education and Security, headed by a Secretary of Cabinet rank. The bill calls for the appointment of three undersecretaries to head the three principal divisions of the department. Blanketed into the new department would be the Federal Security Agency and its units, United States Public Health Service, Food and Drug Administration, and a number of other agencies.

FDA Urges Appeal to High Court on Drug Law Decision

OPD Washington Bureau

The Food and Drug Administration has recommended to the Department of Justice that appeal be taken to the Supreme Court of the United States for reversal of the decision of the Fifth Circuit Court in the Sullivan case, which denies to the agency the right to bring criminal action against over-the-counter sales of dangerous or "RX Legend" drugs.

At the same time, officials announced that they would appear before the House Interstate Commerce Committee June 11 in support of the Wolverton-Miller bills (H. R. 3147 and 3128) which would restore to the agency its power to make seizures of adulterated or misbranded articles in intrastate commerce. Authority to make such seizures was denied to the FDA in the Phelps-Dodge Merchantile Company case which the Supreme Court recently refused to review.

The two decisions have dealt telling blows to powers which the FDA has been exercising for forty years and raises the question of how far the Federal Government can go under the interstate commerce clause in seeking to administer the aims of the Food, Drug and Cosmetic act.

Failure of the Justice Department to appeal the Sullivan decision, and failure of Congress to act favorably on the Wolverton-Miller bills, means undoubtedly that the FDA's powers end when the articles have completed their interstate journey and from there on it is a matter of state regulation.

FDA Handicapped

But for the decision of the Fifth Circuit in the Sullivan case, the FDA might have had comparatively smooth sailing in Congress in seeking to plug the loophole in section 304 (A) of the act, which is the section that the court held in the Phelps-Dodge Merchantile Company case did not give the agency the right to seize foods that became adulterated after they had completed their interstate journey. It is proposed in the Wolverton-Miller bills to insert the language in this section that is used in section 301 (K)—that seizures may be made of adulterated or misbranded articles when introduced into, or while in interstate commerce "or while held for sale after shipment in interstate commerce."

But the Sullivan case turns directly on this language—"or while held for sale after shipment in interstate commerce"—as used in section 301 (K), and the court ruled that Congress did not intend that this language should be interpreted so broadly as to apply beyond the first sale by the importer (wholesaler) after interstate shipment.

FDA officials report that in the absence of a final ruling of the Supreme Court, all that they can do is place the matter of how far the Federal Government is to be allowed to go, squarely up to Congress and let it decide. This they propose to do at the forthcoming hearings.

Hog Serum Budget Set at $31,525

OPD Washington Bureau

The 1947 calendar year budget of expenses for regulating the handling of anti-hog-cholera serum and hog-cholera virus has been estimated at $31,525 by the bureau of animal industry of the Department of Agriculture. There is an unexpended balance of $4,269 from funds collected last year, which leaves $27,255 to be raised from assessments this year.

Of this total amount, it is proposed to collect $26,255 in assessments against manufacturers and $1,000 from distributors. The pro rata share of the expenses of the control program will be $17.45 for each manufacturer per 1,000,000 cubic centimeters of hyperimmune blood collected in 1946, and $2.25 for each distributor per 1,000,000 cubic centimeters of serum sold last year.

Cuban Blackstrap Molasses Sold

OPD Washington Bureau

The Reconstruction Finance Corporation announced the sale last week of an additional 3,200,000 gallons of Cuban blackstrap molasses to the Pacific Molasses Company, New York. The sale involved two shipments due to arrive about June 23, one of 1,800,000 gallons, which was sold for 20.91 cents a gallon, and the other of 1,400,000 gallons, which sold for 22.03 cents a gallon.

This brings the amount of Cuban blackstrap sold by the agency thus far this year to a total of 54,050,000 gallons for which it has received an average price of 25.33 cents a gallon.

The last previous sale was on May 28 of three shipments due to arrive June 13 and June 15. The first cargo of 1,800,000 gallons went to U. S. Industrial Chemicals Company for 19.7 cents a gallon.

A second shipment of equal amount went to the same firm for 20.07 cents a gallon. High bidder for the third shipment of 1,350,000 gallons was American Molasses Company, Boston, at 21.9 cents a gallon.

The agency is still meeting difficulty in endeavoring to dispose of its ethyl alcohol. Except for the first two shipments which came in from Cuba several months ago, the RFC has been unable to sell any of its new accumulations.

It is announced that the agency rejected the bids it received May 15 for some 419,000 gallons of ethyl alcohol produced from grain which has been in storage at Peoria, Ill., and Morgantown, W. Va., because the bids received were too low. Its latest offering of Cuban alcohol of 1,250,000 gallons made on May 22 found no one in the trade interested in purchasing it.

I.G. Farben Output Estimated

I. G. Farbenindustrie, Germany, is expected to produce only 25 percent of its pre-war capacity due to the damaging and destruction of many of its units during the war. There are now about 260 Farben units under American control, with sixty operating under military government trusteeship.

Freight Rates Increase Asked by Eastern Roads

OPD Washington Bureau

Eastern railroads have petitioned the Interstate Commerce Commission for another increase in class rates on less-than-carload shipments which would be in addition to the 10 percent class rate increase for the official territory approved several weeks ago by the Supreme Court of the United States.

The new tariffs have been filed with the commission with the request that they become effective July 20. The increases vary greatly depending upon distances hauled. But shippers and truckers estimate that the increase would average between 17 and 20 percent.

The railroads claim that the increases are necessary because of the higher costs of labor in the handling of the merchandise, which is particularly true of l.c.l. freight. They estimated gross revenues from l.c.l. shipments in 1946 at $218,799,000, which represents about 8 percent of the total revenues of the eastern carriers.

Price Trends Are Mixed

Shifting relations of supply and demand were directly reflected in the price picture of the markets for chemicals, oils, and drugs last week. Quotations were moved both ways in various groups; but the heaviest-volume items stayed put because they are still on the short side as a whole, although producers have caught up on a few articles. The weakening of fats and oils was still the major price influence, and the general level of the markets was again slightly depressed.

Benzene is a scarce article; but, because production of derivatives has got ahead of demand in some places, quotations were lowered on benzene hexachloride, and benzyl formate, propionate, and salicylate. Heavy demand brought advances on benzophenone and benzyl alcohol and acetate. Gum arabic was upped; locustbean and tragacanth were reduced. Corn oil was advanced; soybean and linseed oils were reduced. Lard was higher; grease oil, lower. Carnauba and ouricury waxes were advanced; beeswax and candelilla were reduced. Orange oils were on both sides of the price changes. All these two-way movements reflected the relation of supply and demand.

The weakness of fats and oils brought another big cut in the price of glycerin and effected a reduction in metallic stearates. Butyl stearate also was reduced, along with the lactate and phosphate. Varnish gums were going down in both natural and synthetic groups. Some rosins were upped. Although the start of the fishing season was somewhat weather-bound, prices of menhaden and sardine oils were lowered.

Once again the boosting of corn prices brought higher quotations on sugar, starch, syrup, and dextrin. Shortages in Brazil upped the price of menthol. Export buying further raised prices of oilseed meals. On the contrary, the export quotation on red phosphorus was lowered.

OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

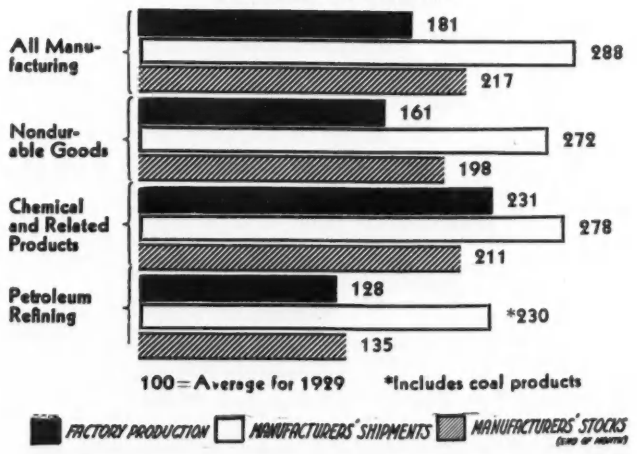
June 5, 1947	May 28, 1947	June 6, 1946
144.6	144.8	135.1

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1947	1946	1945	1941
January	150.9	135.3	133.0	107.8
February	151.9	135.4	133.2	110.3
March	154.9	135.2	132.7	111.9
April	152.3	134.9	132.2	115.5
May	145.9	135.1	132.5	118.2
Year's av'age	....	138.8	133.3	123.2

Business in March



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Chemical Marketing Ass'n Elects Officers

P. J. Carlisle, of E. I. du Pont de Nemours & Co., Wilmington, Del., was elected president of the Chemical Market Research Association at a meeting held in the Biltmore hotel, New York, June 5. George Gollop, of Canadian Industries, Ltd., was elected vice-president.

S. P. Gibson of Commercial Solvents Corporation, New York, was elected treasurer; E. I. Oppel, New Jersey Zinc Company, New York, was named corresponding secretary, and George Rugar, Diamond Alkali Company, Pittsburgh, recording secretary.

L. J. Finnan, jr., of Hercules Powder Company, Wilmington, and L. H. Flett, National Aniline Division of Allied Chemical and Dye Corporation, New York, were elected councillors-at-large.

Members approved an amendment to the constitution which would change the section devoted to eligibility to read "Men in the chemical industry devoting an important part of their activities to economic, commercial and/or market investigations are eligible for membership." The effect of the change makes it possible for chemical consultants, teachers and others who are not now eligible, to join. The constitution also was changed so as to increase the initiation fee.

Guest speakers at the dinner was Dr. S. J. Fink, chairman of the department of economics at Rutgers University school of business administration, whose theme was "The Economic Outlook: Fact and Fiction."

Dr. Fink said that while the American economy is in a somewhat pathological condition at present the current statistics fail to indicate a start on a downward path and business seems willing to avoid a depression by making adjustments now.

He felt that prices will continue the leveling process that began in April but, while there will be no further wage increases this year, wage levels will not follow downward price trends but will maintain 1946 marks.

"Rather than suffering from a consumers buying strike," he said, "we are merely seeing the transition to a normal replacement demand after heavy deferred demands have been met. Normal demand will probably seek 1940-41 levels, but population increases and shifts in income distribution will maintain this replacement demand at the level of 1946 industrial production."

"Buying will be more selective and industry will return to normal competitive operations in which the failures of weaker firms will be more than offset by expansions of stronger organizations."

In conclusion the speaker stressed the need for continuing a large volume of export trade, for periodic governmental reviews of economic trends, and for re-scheduling government projects to avoid conflicts with periods of high industrial demand.

Bids Wanted

Ammonium sulphate, 40 tons, Army Quartermaster (Newburgh, N. Y.) invitation 13, June 13.

Blue toner, 1,200 pounds, Bureau of Engraving & Printing (Washington, D. C.) invitation BEP-765, June 12.

Calcium carbide, 50,000 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8647, June 16.

Compressed gases, as required, fiscal year 1948, Army Engineers Corp (Mobile, Ala.) invitation 183, June 11; Veterans Administration (St. Cloud, Minn.) invitation 48-7, June 13; Veterans Administration (Aspinwall 15, Pa.) invitation 48-4, June 11; Department of Justice (New York 14, N. Y.) invitation 7-954, June 25.

Cutting oil, 11,000 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 256, June 19; 3,000 gallons, invitation 257, June 19.

Drugs and chemicals, Veterans Administration (Washington 25, D. C.) invitation A-125, June 11; invitation A-126, June 12.

Dust-laying oil, 30,000 gallons, Army Air Corps (Tucson, Ariz.) invitation 42, June 25.

Fuel oil, Diesel, District of Columbia (Washington 4, D. C.) schedule 10244-A, June 12.

Grease, 150,000 pounds, Army Ordnance Department (Metuchen, N. J.) invitation 254, June 17; 87,500 pounds invitation 255, June 17.

Hydraulic fluid, 1,500 gallons, Navy Purchasing Office (New York City) negotiation 1233, June 12.

Linseed oil, 220 gallons, Army Chemical Center (Edgewood Arsenal, Md.) invitation CM-169, June 23.

Paint, enamel, 900 gallons, District of Columbia (Washington 4, D. C.) schedule 10274-A, June 13; 1,200 gallons, Army

—Continued on page 52

Lambert Pharmacal Head

Edward T. T. Williams has been named president and director of the Lambert Pharmacal Company, St. Louis, to succeed John L. Johnston, who has been appointed chairman of the board of directors. Mr. Williams was formerly chairman of the executive committee of Becton-Dickinson Company, Rutherford, N. J., and he will continue as a director of that company.

Surplus Materials and Equipment Offered

Current offerings of surplus chemicals and related materials by the War Assets Administration include the following:—

Barium dioxide, reagent, 1,500 ounces, Seattle, SFL-41-42477, June 13.

Bleaching powder, 1,120 pounds, $16.80 for the lot, Seattle, SEO-71-1192.

Borax, technical, 990 pounds; USP, 5,412 pounds, Seattle, SEL-41-42477, June 13.

Carbon dioxide, 196,115 bulbs (390 cubic-inches), 1¾ cents each, 5 cylinders (50-pound), $50 for the lot, Seattle, SEO-71-1192, Seattle.

Copper sulphate, USP, 24,230 ounces, Seattle, SEL-41-42477, June 13.

Dimethylaminoazobenzene, 15,930 grams, Seattle, SEL-41-42477, June 13.

Dimethylanilin, 228,900 pounds, Philadelphia, PHO-74-523, June 16.

Ethyl ketone, 330 gallons, 96 cents per gallon, New York, NYO-75-1362.

Helium, 17 cylinders (200 cubic-feet), $221 for the lot, Seattle, SEO-71-1192.

Hydrogen, 13 cylinders (200 cubic-feet), $169 for the lot, Seattle, SEO-71-1192.

Lead acetate, ACS, 125 pounds, Seattle, SEL-41-42477, June 13.

Paints and varnishes, various, 42 items Philadelphia, PHO-75-514; 26 items, New York, NYO-75-1362, fixed prices.

Phosphotungstic acid, reagent, 21,500 grams, Seattle, SEL-41-42477, June 13.

Potassium chromate, reagent, 3,943 ounces, Seattle, SEL-41-42477, June 13.

Sodium bichromate, crystal, 230 pounds, Seattle, SEL-41-42477, June 13.

Sodium bromide, USP, 27,200 ounces, Seattle, SEL-41-42477, June 13.

Sodium introferricyanide, reagent, 10,000 grams, Seattle, SEL-41-42477, June 13.

Sodium tungstate, reagent, 1,400 ounces, Seattle, SEL-41-42477, June 13.

Solvent, petroleum, 848 gallons, 9 cents per gallon, Seattle, SEO-71-1192.

Sulphur, precipitated, USP, 1,113 pounds, Seattle, SEL-41-42477, June 13.

Tartar emetic, USP, 3,923 ounces, Seattle, SEL-41-42477, June 13.

—Continued on page 52

Barbiturates Control Postponed Again

The New York City Board of Health again last week postponed the enactment of stricter legislation to control the sale of barbiturates which it has been threatening to impose since last October. Opposed by druggists, the regulation would forbid pharmacists to renew a prescription for a barbiturate unless the physician gave specific written orders.

The board had planned to enact the measure into the city's sanitary code last week, but decided to study the move for another month before taking final action.

Quinine Controls Continuance Opposed

OPD Washington Bureau

Continued government control over the purchase and distribution of cinchona bark, quinine and quinidine was opposed last week before a subcommittee of the house judiciary committee, as it opened hearings on (H.R. 3647) extending Title III of the Second War Powers Act until June 30, 1948.

Ira Vandewater, vice-president of R. W. Greeff & Co., New York, and James H. Grove, president of Grove Laboratories, St. Louis, told the committee that the controls are responsible for the current shortage of these products and "prevent the American public from having the maximum benefits of this important drug."

Mr. Vandewater told the committee that the controls had retarded the importation of quinine and quinidine in the past several months and that if lifted, sufficient quantities of these products could be brought into the United States to satisfy all current requirements.

"The Netherlands Indies government has made several offers of quinine sulphate to the Reconstruction Finance Corporation over the past several months," he reported. "The latest offer, made May 14, was of 1,408,000 ounces for May-December delivery. We are now advised that this offer can be increased to 2,112,000 ounces for delivery between the present time and March, 1948."

Mr. Vandewater stated that his company, which he described as acting "on behalf of the Netherlands Indies government," had been authorized to offer that quantity of quinine sulphate at approximately the prewar price, f.o.b. the appropriate foreign port, plus ap-

—continued on page 47

Barrett Posts Nitrogen Solutions Price

The Barrett Division of the Allied Chemical & Dye Corporation announced last week for the calendar quarter beginning in July the price of $107 per ton N for Barrett standard nitrogen solutions will apply f.o.b. Hopewell, Va., or South Point, Ohio.

Market Reports

Arnica flower prices show an easing tendency and late in the past week the market was around $1.90 to $2 per pound despite the fact that no substantial quantities were available at any price. A disposition to discount possible price movements later on in Europe seemed to be developing here.

Coconut oil was firmer and offerings of crude oil below 14c. per pound, tankcars, were reported withdrawn late in the week.

Fishliver oils trading in the extracted article was reported as dull, exactly as it had been for several months. Makers of vitamin products have been readjusting inventories. Prices show an exceptionally wide range according to seller. This wide range is as follows:—8,000 to 14,000 A units per gram, 12c. to 17c. per million units; 15,000 to 30,000 units, 12c. to 20c.; 30,000 to 60,000 units, 15c. to 23c.; 60,000 to 100,000 units, 20c. to 26c.; over 100,000 units, 23c. to 28½c. Concentrates were more fairly well-defined in price, ranging 36c. to 40c.

Linseed oil shipments from Argentina totaled 8,315 tons to the United States last week, according to advices from Buenos Aires.

Soda caustic imports totaled 700 cylinders, 287 tons, from Havre, France, were noted last week. This material was consigned to the American Bayard Cycle Company at 148 Chambers street, New York.

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumers goods recently compiled by the Commercial Intelligence Division of the United States Department of Commerce include the following, which are available from the division at $1 for a list for any one country:—

Chemical importers and dealers, Norway.

Medicinal and toilet preparation importers and dealers, Guatemala.

Medicinal and toilet preparation manufacturers, Portugal.

Petroleum industry, India.

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Fertilizer Project Fought by Industry

OPD Washington Bureau

Chances for passage of the Hickenlooper-Flanagan fertilizer bill (S.1251) at this session of Congress appeared slim today as the result of action taken last week by the senate agricultural committee in postponing further hearings on the measure until June 24.

In view of Congressional plans of adjournment before Summer, it is believed virtually impossible for the committee to complete its taking of testimony and present its findings to the senate in time for any action to be taken.

The fertilizer industry opened last week's hearings with a broadside against the measure because of its threat to private enterprise and because of what is believed to be a misconception by its sponsors of the fertilizer needs of agriculture.

The initial blast came from Ralph Douglass, vice-president of the Smith-Douglass Company, Norfolk, Va., speaking for the American Plant Food Council. Other council members who testified against it were O. C. Metzger, president, and H. S. Ten Eyck, executive vice-president of the Ia-Conda Phosphate & Chemical Company, Perry, Iowa, and Charles E. Heinrichs, of the Virginia-Carolina Chemical Corporation.

NFA Witnesses

The following day the National Fertilizer Association put nine witnesses on the stand to refute arguments of proponents that the legislation was necessary to encourage private expansion of the industry.

They were Maurice Lockwood, president of the association; Dr. G. F. MacLeod, technical vice-president of Sunland Industries, Fresno, Cal.; Howard A. Parker, president of the Sylacauga Fertilizer Company, Sylacauga, Ala.; Louis Ware, president of the International Minerals & Chemical Corporation, Chicago; C. T. Prindeville, vice-president of Swift & Company, Chicago; R. P. Koos, secretary-treasurer of N. S. Koos & Son Company, Kenosha, Wis.; Leste· E. Britton, manager of the fertilizer department of Consolidated Rendering Company, Boston; B. W. Bellinger, general manager of U. S. Phosphoric Products Division of the Tennessee Corporation, and J. R. Simplot, of Simplot Fertilizer Sales Company, Pocatello, Idaho.

Opposition to the bill had been expressed previously by Secretary of Agriculture Clinton Anderson, who thought it would be a "mistake" for the government at this time to construct and operate a $9,000,000 pilot plant for fertilizer production in view of the progress being made by industry in expanding its production facilities in the face of material bottlenecks.

Mr. Anderson said that while he favored Congress establishing a national fertilizer policy it should be limited mainly to these three aims—(1) widespread adoption of better farming systems, which are facilitated by use of adequate amounts of liming materials and fertilizers; (2) development by private industry, including farmer cooperatives, of sufficient plant facilities to supply the liming materials and fertilizers needed for a long range soil improvement program at prices in keeping with efficient production and distribution; and (3) exploration, utilization, and conservation of deposits of fertilizer minerals. He

—*Continued on page 44*

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Ampul-making machinery, Brussels, Belgium (U-1).

Blood plasma, Cairo, Egypt (U-10).

Caustic soda, Cairo, Egypt (U-3); Stockholm, Sweden (U-12).

Chemicals, Bogota, Colombia (U-11).

Chemical plant, Prague, Czechoslovakia (U-14).

Cosmetics, Calcutta, India (U-5).

Drugs, Prague, Czechoslovakia (U-14).

Fine and heavy chemicals, Prague, Czechoslovakia (U-14).

Glycerin, Stockholm, Sweden (U-12).

Industrial Chemicals, Cape Town, South Africa (U-13).

—*Continued on page 87*

Carbon Black Off OIT Positive List

OPD Washington Bureau

The Office of International Trade of the Department of Commerce has removed from the positive list liquid rubber compounds of natural rubber and channel-type carbon black. These products are now under general license for exportation to all destinations in Group K.

Peanut Acid Oil Duty Decision Reversed

OPD Washington Bureau

Peanut acid oil is properly dutiable at 20 percent ad valorem as a non-enumerated manufactured article under paragraph 1558 of the tariff act of 1930, under a decision of the United States Court of Customs and Patent Appeals.

The decision reversed the judgment of the United States Customs Court which held that the oil was dutiable at 10 percent ad valorem under the same paragraph of the act as a non-enumerated unmanufactured article. The government had appealed the decision in the suit brought by McLaughlin & Freeman, importers, against the collector of customs, who had assessed the article at the 20 percent rate.

The Appeals Court noted that the imported peanut acid oil is obtained from the "foots" or "sludge" resulting from the treating of crude peanut oil. The acid is obtained by treating the "foots" with sulphuric acid, which causes the peanut acid oil to rise to the top of the tank.

"We think it is clear," the decision read, "that the process to which the 'foots' or 'sludge' is subject is not a mere process of cleansing peanut acid oil in order to get it by itself, within the purview of the rule announced in U. S. vs. Salomon.

"Peanut acid oil, per se, was not present in the 'foots' or 'sludge.' It was obtained from the 'foots' or 'sludge' by converting the sodium salts of the fatty acids into peanut acid oil.

"We are of opinion that the issue here is controlled by our decision in the case of American Smelting & Refining Company vs. U. S."

McNamee Leaves WAA Philadelphia Post

OPD Washington Bureau

War Assets Administration has announced the resignation of Frank L. McNamee as director of its Philadelphia regional office, effective June 15. He has also served as War Manpower Commissioner for Pennsylvania, Delaware and New Jersey, and as deputy to War Manpower Commissioner Paul V. McNutt.

M.C.A. Growth Discussed At Diamond Jubilee Meeting

A review of the growth of the chemical industry and of the Manufacturing Chemists' Association highlighted the discussions at the annual meeting of the group, held June 4 at Skytop lodge, Skytop, Pa. The meeting marked the seventy-fifth anniversary of the association, which was founded in 1872 by seventeen member firms.

Charles S. Munson, of U. S. Industrial Chemicals, Inc., New York, was reelected president of the association for the coming year. Vice-presidents elected were L. T. Beale, of Pennsylvania Salt Manufacturing Company, Philadelphia, and A. C. Ingraham, of General Chemical Company, New York. W. B. Brown of Victor Chemical Works, Chicago, was elected to the executive committee.

In his annual report, Mr. Munson gave a vivid and colorful review of

Charles S. Munson

the association's history from its birth on May 29, 1872. He stressed the manner in which the industry has grown in size and importance in the national economy, and stated that "today the frontiers of the industry are as distant as they were seventy-five years ago."

Mr. Munson declared that because of its rapid growth and the expanding lists of its products the job of recording essential fact and figures of the industry is difficult.

"At present," he said, "chemical statistics are gathered by government bureaus, trade papers, trade associations, individual companies and others, but there is no agency responsible for coordinating the statistical activities of all interested parties. This problem is of great importance and one to which the industry and the association should give serious consideration."

Price Declines Cited

Mr. Munson said that the driving force of a free enterprise system is

—*Continued on page 46*

Ecuador Importers Seen As Poor Credit Risks

OPD Washington Bureau

The Department of Commerce is warning American exporters to exercise caution in extending credits to importers in Ecuador for the time being because of an unprecedented influx of goods into that country and a consequent curtailment of credit by the commercial banks. Reports indicate that warehouse facilities are overtaxed because of the flood of goods from abroad and the banks are refusing to extend further credit.

The influx of goods resulted from the relaxation of import controls last January, at a time when imported goods brought very high prices on the Ecuadoran market. During the first three months of this year, 42,268 metric tons of goods have entered Ecuador as compared with 12,865 tons during the corresponding period last year.

Moreell Heads Navy Industrial Association

The Navy Industrial Association has elected Admiral Ben Moreell, USN retired, as a member of its board of trustees and as second national vice-president. Admiral Moreell, president and chairman of the board of Jones & Laughlin Steel Corporation, Pittsburgh, served as chief of the Navy's bureau of yards and docks and later of the materiel division during the war. Previous to that, he was Federal Coal Mines Administrator.

Oil Land Ruled U.S. Property

OPD Washington Bureau

Government claims to ownership of oil lands located in an area known as Section 36, Park County, Wyoming, were upheld last week by the Supreme Court of the United States, but it deferred decision on a government claim that the Ohio Oil Company should pay $151,011 for oil removed from the lands.

Also deferred was decision on whether the state of Wyoming should hand over to the U. S. Treasury $17,306 received as royalties from the company. Wyoming had claimed the 640 acres of land under an 1890 act which admitted the state to the union, and the oil company had operated under leases granted by Wyoming.

Washington Talks It Over

The OPD Observer

The chemical and allied industries can expect the census takers to be around sometime in January or early February, next year, gathering the information for the 1947 census of manufacturers. Congress has finally authorized $4,000,000 for the census, which is considerably less than asked for but sufficient to get most of the basic information desired.

About fourteen different schedules are being prepared for the chemical and allied industries and will be found to be more inclusive and differently rearranged than were those of the 1939 census. F. M. Hoffheims, of the chemicals and drugs division of the Commerce department, who was loaned to the Census bureau to draw up the schedules, has practically completed the schedules, and some of them now are being sent to industry for its comments.

One of the big aims of the new census will be to carry forward as much as possible the enduse pattern of chemicals. Ever since the war the Census bureau has been issuing reports on how various chemicals were distributed during the war, among enduse products. This has proved most enlightening even to the producers of the chemicals themselves. It was the first time that such information had ever been gathered, and the data are very valuable to sellers seeking to find markets for their products.

Another innovation in the census-taking this time will be the gathering of actual consumption figures on the various chemicals produced. Heretofore this information has had to be presumed from the production and shipment figures. This information will be particularly useful in connection with production of fertilizers. A complete consumption picture on materials consumed in that industry is planned.

The drug census is being broken down this year into three parts: one schedule will relate to biological and biological products; another will relate to inorganic and organic medicines; and the third, to pharmaceutical forms. An effort will be made to get definite figures on shipments of lemon and orange oils. In the

—*Continued on page 38*

Lehn & Fink Appoints Underwood Vice-Pres.

Lehn & Fink, Inc., drug manufacturer, New York, has appointed John A. Underwood vice-president in charge of sales and promotional activities of its drug and professional products.

Mr. Underwood was formerly president of Personal Products Corporation and director of Johnson & Johnson, and was previously president of Manning Bowman & Co., Meriden, Conn.; division manager of Montgomery Ward & Co., and general manager of Great Western Stores.

Donald J. Finlayson will continue as sales manager of Lehn & Fink, and John A. Hise, jr., will continue to be sales promotion manager.

Oil Compact Group To Meet August 11-13

Interstate Oil Compact Commission will hold its summer quarterly meeting at the Rainbow hotel, Great Falls, Montana, August 11 to 13. The program will stress more effective oil and gas conservation in the Western States.

The Sultan's Medical Monopoly

Earth from the Isle of Lemnos was deemed specific for many ailments from the time of Herodotus to the beginning of the last century. It is a greasy, gritless clay consisting of oxide of *aluminum*, silica, chalk and magnesia. Lemnian earth was held in high esteem as an antidote for all poisons, and was given for dysenteries, internal ulcers, hemorrhages, and pestilential fevers. Externally it was applied to festering wounds.

For centuries Lemnian earth was the monopoly of the Sultan of Turkey, and the penalty of death was attached to opening the source pit by unauthorized persons.

Until recently the earth was dug with great ceremony on only one day each year. The pit, which was kept closed during the remainder of the year, was opened with solemn rites by the priests on the sixth day of August, six hours after sunrise. The earth was washed, dried, and then molded into blocks and imprinted with a seal. It was then sent to Constantinople for distribution.

Not until the advent of modern science has it been possible to obtain aluminum compounds—ingredients of Lemnian and other earths—in commercial quantities and of uniform dependable purity. Today Mallinckrodt aluminum compounds bear the trademark of a firm which has been manufacturing fine chemicals for eighty years.

For aluminum products of uniformity, purity and dependability specify **Mallinckrodt Aluminum Acetate, Chloride, Citrate, Hydroxide, Stearate, Sulfate, Alums and other compounds.**

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Industrial Application Of Chemicals

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Di(hydroxymethyl)nitroethane Dipropionate

Adhesives—Plasticizer (U.S. 2128136) in adhesive compositions containing cellulose esters.

Ceramic—Plasticizer (U.S. 2128136) in compositions, containing cellulose esters, resins, or rubber, used as coatings for protecting and decorating ceramic articles.

Chemical—Plasticizer (U.S. 2128136) for cellulose esters.

Cosmetic—Plasticizer (U.S. 2128136) in nail enamels and lacquers containing cellulose esters as the base material.

Electrical—Plasticizer (U.S. 2128136) in insulating compositions, containing cellulose esters, resins, or rubber, used for covering wire and in making electrical machinery and equipments.

Glass—Plasticizer (U.S. 2128136) in compositions, containing cellulose esters, used in the manufacture of nonscatterable glass and as coatings for protecting and decorating glassware.

Leather—Plasticizer (U.S. 2128136) in compositions, containing cellulose esters, resins, or rubber, used in the manufacture of artificial leather and as coatings for protecting and decorating leathers and leather goods.

Metal-Fabricating—Plasticizer (U.S. 2128136) in coating compositions, containing cellulose esters, used for protecting and decorating metallic articles.

Miscellaneous—Plasticizer (U.S. 2128136) in coating compositions, containing cellulose esters, resins, or rubber, used for protecting and decorating articles of various types.

Paint, Varnish, and Lacquer—Plasticizer (U.S. 2128136) in paints, varnishes, lacquers, enamels, and dopes containing cellulose esters, resins, or rubber.

Paper—Plasticizer (U.S. 2128136) in compositions, containing cellulose esters, resins, or rubber, used in the manufacture of coated papers and as coatings for protecting and decorating articles made of paper or pulp.

Photographic — Plasticizer (U.S. 2128136) in making films from cellulose esters.

Plastics—Plasticizer (U.S. 2128136) in making laminated fiber products, molded articles, plastic materials from or containing cellulose esters or resins.

Resins—Plasticizer (U.S. 2128136) for resins.

Rubber—Plasticizer (U.S. 2128136) in compositions, containing cellulose esters, resins, or rubber, used as coatings for protecting and decorating rubber goods.

Stone—Plasticizer (U.S. 2128136) in compositions, containing cellulose esters, resins, or rubber, used as coatings for decorating and protecting artificial and natural stone.

Textile—Plasticizer (U.S. 2128136) in compositions, containing cellulose esters, resins, or rubber, used in the manufacture of coated fabrics.

Wood—Plasticizer (U.S. 2128136) in compositions, containing cellulose esters, resins, or rubber, used as protective and decorative coatings on woodwork.

Ethylenebutyrohydrin

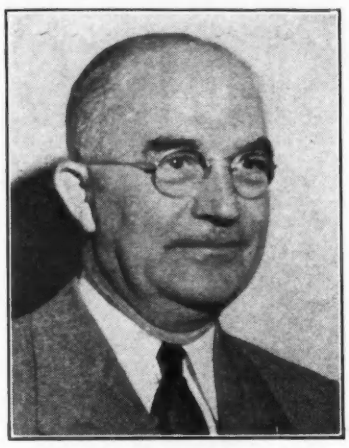
Agriculture—Ripening agent for treating fruit.

Purchasing Agents Get Data On Production and Prices

The attainment of a balanced national economy was the principal target of speakers at the thirty-second annual convention of the National Association of Purchasing Agents, held last week at the Waldorf-Astoria hotel, New York. More than 2,500 members and guests attended the meeting, theme of which was "How Much . . . When . . . and For How Much."

Garnet T. Dickson, manager of customs and purchasing for Goodyear Tire & Rubber Company of Canada, New Toronto, was elected president of the association for the coming year. Newly elected district vice-presidents were named as follows:—

C. C. Pingree, Whitmore Oxygen Company, Salt Lake City; C. S. Worley, Consolidated Gas Utilities Corporation, Oklahoma City; Paul O'Brien, Frank Adam Electric Company, St. Louis; A. N. Phillips, Schwitzer-Cummins Company, Indianapolis; G. A. Ireland, National Paper Goods Ltd., Hamilton, Ont.; L. A. Anderson, Twin Coach Company, Kent, Ohio; W. E. Rier, Rotary Lift Company, Memphis; H. W. Macintosh, L. O. Koven & Brother, Jersey City, and J. C. Andrews, American Hardware Corporation, New Britain, Conn.



Garnet T. Dickson

George W. Aljian, director of purchasing for the California & Hawaiian Sugar Refining Corporation, San Francisco, and president of the association, said the big jobs facing purchasing agents are to insure management all the materials, supplies and equipment required; to insure delivery when required, and to buy at lowest possible prices and to buy more efficiently than ever before.

"It is the duty and responsibility of purchasing agents to work to bring assurance of price, assurance of quality and assurance of delivery back to industry," he said.

In welcoming members of the association, David M. Meeker, resident purchasing agent for the Paraffine Companies, New York, and president of the Purchasing Agents Association of New York, declared that "although it is necessary for prices to come down, it does not follow that we must have either a severe or a lengthy recession to accomplish this end."

This sentiment reflects the belief in New York, he said, and added that as purchasing agents for the "most active and forward looking concerns in our communities, we can be of great service in spreading this positive, optimistic doctrine throughout the land in opposition to the many negative and pessimistic reports which lately have become so frequent."

Chemicals from Petroleum

The wartime contributions of the petroleum industry to the supply of critical chemicals are being continued in these days of peace, said J. Oostermeyer president of the Shell Chemical Company. The industry's chemical role is being expanded to meet new demands and to remedy shortages. These include short-term shortages due to depleted inventories, pent-up consumer demand, and momentarily high purchasing power, and longer-term shortages resulting from the inadequacy of production facilities to current demands. A third, and really basic shortage, to which the speaker particularly addressed himself, was defined as that which arises when the demand for a given chemical outgrows not only the productive capacity, but also the supply of raw material from which it is made.

The more basic chemical problems under this type of shortage were covered by Mr. Oostermeyer in several groups. The gist of his comments follows here.

Alcohols.—Grains are too expensive for use as the raw material for industrial alcohol. Blackstrap molasses, commonly used, is scarce because the new, ion-exchange methods of sugar refining leave less residue. Producers of industrial alcohol are turning to wood waste and petroleum. Two plants are making alcohol from wood waste in the Pacific Northwest. Alcohol has been synthesized from petroleum in the West Virginia and Gulf coast areas for several years. At least one large new plant is nearing completion in Texas. Stabilization of the price of industrial alcohol within the range of 30 cents to 40 cents per gallon is probable within the next year or two. Synthesis of methanol from natural gas will soon make the supply and price such that it will displace ethyl alcohol from such uses as antifreeze. Isopropyl alcohol is produced entirely from oil refining gases and is stable in price around 30 cents to 40 cents. It is displacing ethyl alcohol. Normal propyl alcohol is a newer petroleum derivative, priced attractively as a replacement for ethyl alcohol.

Benzene.—Production of toluene from petroleum, developed some eight years ago., helped much to meet the wartime demand. As early as 1942, one petroleum plant was producing more toluene than the entire coaltar industry. Some petroleum toluene plants have been closed, but enough are going to supply enough to stabilize the price at about 23 cents per gallon. Easily convertible to the making of xylene, these plants assure an ample supply of that related material, at the same price. The cost of making benzene from petroleum does not permit such an oil derivative to be sold for less than 23 cents per gallon. So far, the increasing demand is largely being met with coaltar benzene which formerly went into admixture with gasoline for use as a motor fuel. The growing demand for benzene for the making of phenol and styrenes in the plastics field, and the need benzene and phenyl compounds used as insecticides is likely to push the price of coaltar benzene still higher. The economic usefulness of benzene may move it to the top of the aromatic solvents group—and

—Continued on page 74

Paint Federation To Meet June 14

The Federation of Paint & Varnish Production Clubs will celebrate its twenty-fifth anniversary on June 14 at the Cleveland hotel, Cleveland.

Plans for the meeting include receiving of committee reports outlining future policies of the organization and the report of the nominating committee, as well as the annual report of the president of the group.

A twenty-fifth anniversary dinner, honoring members of the Cleveland club and some of the founders of the organization will be held at the close of the meeting.

N.Y. Textile Chemists To Hold Golf Outing

New York section of the American Association of Textile Chemists and Colorists will hold its annual golf outing on June 20 at the North Jersey Country Club.

Drug Manufacturers Denied More Sugar

OPD Washington Bureau

The drug industry's request for an increased allotment of sugar to enable manufacturers to increase production and put on the market recently-developed new drugs was formally rejected last week by the Sugar Rationing Administration of the Department of Agriculture.

Carson P. Frailey, executive vice-president of the American Drug Manufacturers Association, had appealed to the agency on behalf of a number of producers for an increase in the industry's quota to 150 percent of 1941 consumption, instead of the present 120 percent quota. Mr. Frailey pointed out that present allotments were not sufficient to permit marketing of new products or to provide adequate supplies of drugs and medicines.

In respect to inadequacy of present supplies, Irving L. Rice, acting administrator of SRA, declared that based on an unofficial check with the Food and Drug Administration, the National Research Council and the American Pharmaceutical Association there did not appear to be any shortage of current drug supplies because of the lack of sufficient sugar.

"The request that additional sugar be granted for the marketing of new products does not seem to be altogether valid," he said, "since manufacturers are now receiving 20 percent more than the total amount of their 1940 useage.

"We believe we should point out that in the past sugar has been provided for the manufacture of penicillin and folic acid. These have been recognized as essential new products by FDA and the National Research Council. If there are any new developments similar in nature to these products and recommendations can be obtained from the above-mentioned agencies as to their essentiality, we would be willing, of course, to recognize them and to grant sugar for the manufacture of them in the same way as we have for penicillin and folic acid.

"It is recognized that the quantity of sugar used by the pharmaceutical manufacturers is relatively small as compared to the total sugar consumption. Nevertheless, we must in all fairness maintain uniformity of policy in setting percentage factors for this industry. As we have already stated, the percentage factors for this industry have been based on the need for drug supplies. Since there is no indication that current supplies of drugs and medicines are inadequate, we do not believe it would be proper to grant your request for additional sugar at this time."

Merck Research Awards Granted

The National Research Council has announced the initial five awards under the $100,000 fund established by Merck & Co., drugs manufacturer, Rahway, N. J., to provide promising young scientists with further research training in chemistry and biology.

Recognizing that many scientific problems are so complex that combinations of skills are needed, the company established the fund to help foster the development of scientific leaders with broad competence in the natural sciences.

The Merck Fellowship Board appointed by the council consists of Dr. A. N. Richards, University of Pennsylvania; Dr. George W. Beadle, California Institute of Technology; Dr. Hans T. Clarke, Columbia University; Dr. George O. Curme jr., Carbide & Carbon Chemicals Corporation, and Dr. Rene J. Dubos, Rockefeller Institute for Medical Research. Dr. D. W. Bronk, chairman of the council, is also a member, ex officio.

Smith Memorial Lecture Delivered by Stanley

Dr. Wendell M. Stanley, of the Rockefeller Institute for Medical Research, Princeton, N. J., delivered the Edgar Fahs Smith Memorial Lecture, sponsored by the Philadelphia section of the American Chemical Society, at the University of Pennsylvania last week.

Association Meeting Dates

American Leather Chemists Association, Edgewater Beach hotel, Chicago, June 18-21.

American Plant Food Council, Homestead, Hot Springs, Va., June 13-15.

American Society for Testing Materials, Chalfonte-Haddon hotel, Atlantic City, N. J., June 16-20.

American Water Works Association, 1947 Conference, Auditorium, San Francisco, July 21-25.

British Chemical Society, London, July 15-17.

Drug, Chemical and Allied Trade section of New York Board of Trade, Pennsylvania hotel, June 25.

International Congress of Pure and Applied Chemistry, London, July 11-24.

National Fertilizer Association, Essex and Sussex hotel, Spring Lake, N. J., June 20-21.

National Foreign Trade Council, St. Louis, Oct. 20-22.

National Institute of Governmental Purchasing, Pennsylvania hotel, New York, September 8-11.

National Wholesale Druggists Association, Ritz Carlton hotel, Atlantic City, N. J., October 18-23.

OPD—6-9-1947

MERCK IS SERVING THE INSECTICIDE INDUSTRY AS A BASIC SOURCE OF SUPPLY FOR DDT

An aerial view of the Main Plant of Merck & Co., Inc. at Rahway, N. J.

As expanding facilities and raw materials come into operation, and current commitments are provided for, we will find increasing opportunities to cooperate with manufacturers of DDT insecticides.

The product we offer is—

DDT

TECHNICAL

(dichloro-diphenyl-trichloroethane)

Setting Point 89° C. Minimum
For Manufacturing Purposes Only

Please address your inquiry to the Insecticide Products Department, Merck & Co., Inc., Rahway, N. J.

DDT TECHNICAL

For the Manufacture of Agricultural, Livestock, Horticultural, and Household Insecticides

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MERCK

Current Market Quotations Chemicals and Related Materials

June 5, 1947

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

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A

Acacia (see Gum, Arabic).

Acetaldehyde, 99%, dms., 55 gals., works..lb. .11 - .12
5 and 10 gals., works....lb. .14 - .15
tanks .....lb. .08 - .09

Acetaldol (see Aldol).

Acetamide, CP, fib. dms.....lb. .65 - .75
tech., fib. dms.....lb. .33 - .43

Acetanilide, tech., cryst., powd., bbls., c.l...lb. .19 - ..
l.c.l. .....lb. .20 - .25
kgs .....lb. .25 - —
USP, cryst., powd., bbls., 2,000-lb. lots..lb. .40 - .41
smaller lots.....lb. .41 - .42

Acetic anhydride, dms., c.l., frt. alld. E..lb. .13 - —
l.c.l., frt. alld. E.....lb. .14½- —
tanks, frt. alld. E.....lb. .11 - —

Acetoacetanilide, bbls., dms...lb. .60 - —
Acetone, CP, dms., c.l., dlvd..lb. .06½- .10¼
l.c.l., dlvd. .....lb. .09 - .11½
tanks, dlvd. .....lb. .07 - .09
Methyl (see M).

Acetonitrile, dms., c.l., works.lb. .45 - —
l.c.l., works.....lb. .50 - —
5-gal. lots, works.....lb. .55 - —
less than 5-gal. lots, works .lb. .60 - —

Acetophenetidin, USP, bbls., kgs., 1,000-lb lots..lb. 1.00 - —
dms .....lb. 1.08 - 1.10

Acetophenone, cns., dms.....lb. 1.50 - 1.75

Acetyl chloride, cbys., works..lb. .60 - —

Acid abietic, dms., c.l., wk..lb. .07½- —
Acetic, com'l or redist., 28%, bbls..100 lbs. 3.75 - 4.08
50%, bbls.....100 lbs. 7.56 - 7.81
70%, bbls.....100 lbs. 9.45 - 9.70
80%, bbls.....100 lbs.10.80 -11.06
glacial, synthetic, C.P., dms., works..100 lbs.13.20 -13.75
tanks .....100 lbs. 7.62 - 7.92
tech., works.....100 lbs. 9.90 -10.20
tanks, works.....100 lbs. 7.62 - 8.12
USP, dms., works..100 lbs.11.60 -11.65
USP, 36%, cbys.....lb. .1000- .1605

Acetic acid price ranges above are c.l. and l.c.l. quantities. Carboys and casks are 50c. per 100 lbs. higher.
Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, special. USP, bbls., makers, primary distrib., point of ship't, 100-lb. lots..lb. .50 - —
smaller lots.....lb. .51 - .64
standard USP, fine, cryst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis. lb. .45 - .59

Freight equaled, shipment identical quantity over standard routes, from N. Y. City, Phila., Midland, Mich., Chicago and St. Louis.

Aminoacetic, NF, cryst., powd., bbls., frt. adjusted..lb. 1.50 - 1.67

Anthranilic, resub., bbls.....lb. 2.00 - 2.30
tech., bbls. .....lb. .90 - —

Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs....lb. .20 - .22

Ascorbic, USP, dms., 500-kilo lots..kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.35 - —
5-kilo lots.....kilo.25.70 - —
bots., kilo lots.....kilo.26.41 - —
500 grams.....kilo.27.47 - —

Battery, cbys., c.l., E. works.. 100 lbs. 1.60 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75

Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. up..lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less..... .lb. .58 - .59
dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59

Betaoxynaphthoic, bbls., works, lb. 1.05 - —

Boric, tech., 99.5%, gran., bulk, ton.95.50 - —
paper bgs., c.l., frt. alld. ton.99.00 - —
ton lots, ex whse, N. Y. or Chi..ton.117.50 - —
less ton lots, same basis. ton.122.50 - —
bbls., c.l., frt. alld..ton.119.00 - —
ton lots, ex whse., N. Y. or Chi..ton.137.50 - —
less ton lots, same basis. ton.142.50 - —
cryst., powd., paper bgs., c.l., frt. alld..ton.104.00 - —
ton lots, ex whse. N. Y. or Chi..ton.123.50 - —
less ton lots, same basis..ton.127.50 - —
bbls., c.l., frt. alld.ton.124.00 - —
ton lots, ex whse., N. Y. or Chi..ton.142.50 - —
less car lots, same basis..ton.147.50 - —

USP $25 per ton higher.

Broener's, bbls.....lb. 1.22 - —

Butyric, 90%, dms., c.l., works, lb. .32 - —
l.c.l., same basis.....lb. .33 - —

Cacodylic, bots.....lb.13.00 -16.50
Camphoric, synthetic, cns...lb. 7.00 - 7.25
Caprylic, 99%, dms.....lb. .50 - —
Capric, tech., ret. dms.....lb. .45 - —
Castor oil split ret. dms...lb. .34½- —

Acid, chlorosulphonic, dms., c.l., works..lb. .03 - —
l.c.l., works .....lb. .03½- .04½
tanks, works.....lb. .02½- —

Chromic, 99½-99¾%, dms., c.l., lb. .20 - —
l.c.l. .....lb. .20¼- .21

Cinnamic, refd., bots.....lb. 3.00 - 4.00

Citric, anhyd., gran., fine gran., dms., c.l..lb. .24½- —
l.c.l., 10,000 lbs., 1 ship't. lb. .25 - —
smaller lots, bbls.....lb. .25½- —
kgs. .....lb. .26 - —

Anhydrous citric acid powder, ½c. per lb. higher.

USP, cryst., bbls., c.l.....lb. .25 - —
l.c.l., 10,000 lbs., 1 ship't. lb. .25½- —
smaller lots, bbls.....lb. .26 - —
kgs. .....lb. .26½- —
gran., fine gran., bbls., c.l. lb. .22 - —
l.c.l., 10,000 lbs., 1 ship't..lb. .22½- —
smaller lots, dms..lb. .23 - —
kgs. .....lb. .23½- —

USP citric acid powder, ½c. per lb. higher.

Cleve's, bbls. .....lb. .65 - 1.00
Coconut oil, dist., dms.....lb. .28 - —
Corn oil, s.d., dms., works..lb. .25¼- .25¾
Cottonseed oil, s.d., dms....lb. .25¼- .25¾

Cresylic dom., coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald..gal. 1.16 - —
l.c.l., same basis....gal. 1.19 - —
tanks .....gal. 1.10 - —

Petroleum, heavy grade (247°-298°), dms., 20, Cal. ref..gal. .490 - —
Sewaren, N. J., ref. gal. .616 - —
1-19, Cal., ref....gal. .510 - —
Sewaren, N. J., ref. gal. .636 - —
tanks, dlvd. .....gal. .586 - —

medium grade (200°-246°), dms., 20 Cal., ref..gal. .50 - —
Sewaren, N. J., ref. gal. .636 - —
1-10, Cal. ref....gal. .570 - —
Sewaren, N. J., ref. gal. .696 - —
tanks, dlvd. .....gal. .646 - —

Crotonic, bbls., Canadian, wks. lb. .25 - —

Dichlorophenoxyacetic, fib. dms., c.l., works. lb. .80 - —
l.c.l., works .....lb. .85 - .95

Diethylbarbituric (see Barbital).
F (see Acid, monosulphonic).

Formic, 85%, cbys., c.l., wks.lb. .12 - —
l.c.l., works.....lb. .12½- .14½
90%, cbys., c.l., works ...lb. .12½- —
l.c.l., works..... ..lb. .13 - .14½

Fumaric, tech., bbls., dm ..lb. .27 - .31

Gallic NF V, 1,000-lb. lots, bbls..lb. 1.40 - —
smaller lots.....lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots. lb. 1.23 - —
smaller lots.....lb 1.26 - 1.28

Gamma, bbls.....lb .97 - —

Gluconic, tech., 50%, bots...lb .23 - .31
dms. .....lb .14 - —
kgs. .....lb .16 - —

Glycolic (see Acid, hydroxyacetic).

H, bbls., works.....lb. .50 - —

Hydriodic, 45-47%, cbys.....lb. 2.52 - 2.54
57%, cbys.....lb. 2.83 - 2.85

Hydrobromic, medicinal, 48%, cbys., dlvd. E..lb. .48 - —
tech., 48%, cbys., same basis. lb. .45 - —
34%, cbys., same basis...lb. .35 - .37

Hydrochloric (see Acid, Muriatic).

Hydrocyanic, cyls., works...lb. .80 - 1.00
NF, dilute, 2%, 5-lb. lots..lb. .30 - .40

Hydrofluoric, anhyd., cyls., wks. lb. .19 - .19¼
dmjn. .....lb. .21 - .23
tanks, works.....lb. .16 - —
30%, rubber dms., works..lb. .08 - .09
48%, rubber dms., works..lb. .12 - —
52%, rubber dms., works..lb. .12½- —
60%, rubber dms., works..lb. .13½- —

Hydrofluosilicic, 30-35%, bbls.lb. .08 - .09

Hydroxyacetic, 70%, tech., bbls., non-return, Phila lb. .084 - —
tanks, Belle, W. Va., acid basis..lb. .085 - —

Hypophosphorous, USP, djns.lb. .75 - .77

Lactic, edible, 50%, bbls., 20 or more..lb. .14½- —
smaller lots.....lb. .15 - —
80%, bbls., 5 or less...lb. .24¼- .24¾
plastic grade, 50%, bbls., 20 or more..lb. .17¾- —
10 or less.....lb. .18¼- —
80%, bbls., 5 or less.....lb. .31¾- .32¼

tech., 22%, bbls., c.l., works, 100 lbs. 4.40 - —
l.c.l., works....100 lbs. 4.80 - —
cbys., works.....100 lbs. 5.30 - —
44%, bbls., c.l., works..... 100 lbs. 8.15 - —
l.c.l., bbls., works..... 100 lbs. 8.55 - —
cbys., works.....100 lbs. 9.05 - —
USP XII, 80%, cbys.....lb. .54 - .57
USP VIII, 70%, cbys.....lb. .52 - .55

Laurent's, bbls.....lb. .33 - —

Lauric, dist., 85%, dms.....lb. .37½- —
60%, dms. .....lb. .32 - —

Linseed oil, light, dms.....lb. .47¼- .48¼

Maleic, powd., dms.....lb. .26 - .3-
Anhydride (see M).

Acid, malic, powd., kgs.....lb. .47 - —
Mandelic, NF, dms., 1,000-lb. lots..lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.30

Mixed, tanks, nitric unit....lb. .05 - .06
surphuric unit .....lb. .0085- .009

Molybdic, kgs., works.....lb. .96 - 1.10

Monochloracetic, tech., flakes, 96-97%, dms..lb. .17 - .18
purified, flake, 99%, dms...lb. .21 - .22½

Monosulphonic, bbls. .....lb. 1.50 - —

Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - 1.70
l.c.l., E. works...100 lbs. 1.90 - 2.90
tanks, works .....ton.18.00 -18.20
20°, cbys., c.l., E. works.... 100 lbs. 1.85- 2.00
tanks, E. works.....ton.20.00 -21.00
22°, cbys., c.l., E. works... 100 lbs. 2.35 - 2.50
tanks, E. works.....ton.22.00 -26.00
CP, USP, consumers, cbys. extra...lb. .08 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys., extra....lb. .06½- —
6-lb. bots., extra.....lb. .08½- —

Myristic, dist., dms.....lb. .40 - —

Naphthenic, 220-230 acidity, dms., extra, works..lb. .12 - —
tanks, works .....lb. .09 - —
230-240 acidity, dms., extra, works..lb. .17 - —
tanks, works .....lb. .14 - —

Neville and Winthers, dms..lb. .75 - —

Nicotinic, USP, dms., works.. kilo. 7.00 - 7.30

Nicotinic amide (see Nicotinamide).
Nitric, 36°, cbys., c.l., E. works. 100 lbs. 5.00 - —
l.c.l., 25, E. works.100 lbs. 5.30 - 6.30
38°, cbys., c.l., E. works.. 100 lbs. 5.50 - —
l.c.l., works.....100 lbs. 6.00 - 6.25
40°, cbys., c.l., E. works... 100 lbs. 6.00 - 6.50
l.c.l., works.....100 lbs. 6.50 - 7.10
42°, cbys., c.l., E. works.... 100 lbs. 6.50 - 7.00
l.c.l., works.....100 lbs. 7.00 - 7.35
CP, USP, consumers, cbys. extra...lb. .13 - —
7-lb. bots., cs., extra...lb. .15 - —
dealers, cbys. extra....lb. .11½- —
7-lb. bots., cs., extra...lb. .13½- —

Oleic (see Oil, Red).
Oleum (see Acid, sulphuric, fuming).

Oxalic, bbls., c.l., works.....lb. .13 - —
10,000 lbs. .....lb. .13¼- —
smaller lots .....lb. .14 - —
Palm oil, white, dist., dms...lb. .30¼- .31
Para-aminobenzoic, cns. .....lb. 1.55 - —
Paranitrobenzoic, cns. .....lb. .80 - —
Paratoluidinmetasulphonic, bbls., works..lb. .85 - —

Peanut oil, s.d., tanks, works. lb. No prices.

Phenylacetic, bots. .....lb. 1.60 - 1.75

Phosphoric, food grade, 50% bbls., c.l., works, frt. equald..100 lbs. 4.50 - —
l.c.l., same basis..100 lbs. 5.25 - 6.25
cbys., c.l., works, frt. equald..100 lbs. 5.00 - —
l.c.l., works, frt. alld.. 100 lbs. 6.00 - 7.50
75%, bbls., c.l., works, frt. equald..100 lbs. 5.25 - —
cbys., c.l., works, frt. equald..100 lbs. 5.60 - —
l.c.l., frt. alld...100 lbs 7.75 - 8.75
tanks, works, frt. equald.. 100 lbs. 4.65 - —

USP, 100-lb. cbys., c.l....lb. .10½- —
10 cbys. to c.l.....lb. .11½- —
2 to 9 cbys.....lb. .12 - —
single cbys. .....lb. .13 - —
70-lb. cbys. .....lb. .10½- —
25 cbys. to c.l.....lb. .11½- —
5 to 24 cbys.....lb. .12 - —
1 to 4 cbys.....lb. .13 - —
dilut., 10%, cbys., djns..lb. .07 - .07½

Picramic, bgs.....lb. .65 - .70
Picric, bbls. .....lb. .30 - .31

Propionic, nat., dms., works..lb. .15 - —
tanks, works.....lb. .14 - —
synth., pure, dms., works.lb. .22 - —
tanks, works.....lb. .21 - —

Pyrogallic, tech., bbls.....lb. No prices
N.F., cryst., dms.....lb. 2.50 - 2.55
resub., dms. .....lb. 3.00 - 3.02

Pyroligneous, bbls., incl., ex whse., l.c.l...gal. .41 - —

Ricinoleic, com'l split (see Acid, castor oil, split.)

Salicylic, tech., bbls., c.l.....lb. .31 - —
smaller lots.....lb. .33 - —
USP, bbls., c.l.....lb. .40 - —
smaller lots.....lb. .47 - —

Sebasic, tech., dms., c.l., works. lb. No stocks

Soybean oil, s.d., dms., works, lb. .30 - —

Stearic, double pressed, bgs..lb. .29½- .30½
single pressed, bgs.....lb. .29 - .30
triple pressed, bgs.....lb. .32½- .33½

Succinic, bbls. .....lb. .87 - .90

Sulphanilic, CP, bots., works.lb. 1.60 - 1.68
tech., dms., works.....lb. .17 - —

Sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.35 - 1.40
l.c.l. .....100 lbs. 1.70 - 2.00
tanks, E. works.....ton.13.00 -13.50
66°, cbys., c.l., E. works.. 100 lbs. 1.55 - 1.70
tanks, E. works.....ton.16.50 -17.50
98°, tanks, works.....ton.17.50 -18.56
CP, USP, consumers cbys., extra..lb. .08 - —
9-lb. bots., cs., extra..lb. .10 - —
dealers, cbys., extra....lb. .06½- —
9-lb. bots., cs., extra.lb. .08½- —
fuming, 20%, tanks, E. works. ton.19.50 -20.50

Tannic, tech., bbls., dms..lb. .93 - .94
USP, fluffy, bbls., 1,000-lb. lots..lb. 1.45 - —
smaller lots .....lb. 1.47 - 1.50
powder, bbls., 1,000-lb. lots. lb. 1.25 - —
smaller lots .....lb. 1.27 - —

Tartaric, USP, cryst., gran., powd., bbls., 10,000 lbs., 1 ship't..lb. .49½- —
smaller lots, bbls..lb. .50 - —
dms. .....lb. .52 - .53
kgs. .....lb. .50¼- —

Thioglycollic, refined, bbls., cbys., basis 100%..lb. 1.95 - 2.00
tech., bbls., cbys.....lb. 1.40 - —

Tobias, bbls. .....lb. .60 - —

Trichloroacetic, bots.....lb. 2.00 - 2.50

Tungstic, CP, 100-lb. pkgs..lb. 2.10 Nom.
pure, 100-lb. kgs.....lb. 2.50 - Nom.

Aconite leaves, bls.....lb. .75 - .80
Root, bls. .....lb. 1.10 - 1.15

Aconitine, amorph., mild, bots.oz.32.50 - —
cryst., potent, bots.....oz.85.00 - —

Acrylonitrile, dms., c.l., works lb. .29½- —
l.c.l., works .....lb. .30½- .42½
tanks, works.....lb. .28½- —

Adeps lanae, USP, anhyd., cosmetic, dms., works.lb. .27 - .29
pharmaceutical, dms., works, lb. .25 - .27

Adonis vernalis herb, bls.....lb. .65 - .70

Agar .....lb. 2.75 - 3.00

Agaric, white, bls.....lb. 2.75 - 3.00

Agrimony herb, bls.....lb. .40 - .45

Albumen, blood, dark (see Blood, soluble).
light, dms., l.c.l.....lb. .70 - —
egg, edible, cryst., gran., bbls. lb. 1.90 - 2.00
powd., bbls. .....lb. 1.95 - 2.05
tech., cryst., bbls.....lb. 1.15 - 1.30

Alcohol, allyl, dms., c.l., dlvd.lb. .21½- —
l.c.l., dlvd. .....lb. .22 - —
tankcars, dlvd. .....lb. .20 - —

Amyl ex pentane, dms., c.l., frt. alld. E. of Miss R. lb. .161 - —
l.c.l., frt. alld.....lb. .171 - —
tanks, frt. alld.....lb. .151 - —
(see also Fusel oil, ref.).

Benzyl, cns. .....lb. .72 - .80
dms. .....lb. .68 - —

Butyl, normal, ferment, Ill., Ind. prod., dms., c.l., frt. alld..lb. .30¼- —
l.c.l., frt. alld. E...lb. .31½- —
tanks, frt. alld. E...lb. .29 - —
tankwagon, frt. alld..lb. .29½- —
other production, dms., c.l., frt. alld. E..lb. .30½- —
l.c.l., frt. alld. E....lb. .31½- —
tanks, frt. alld. E....lb. .29 - —
synthetic, dms., c.l., frt. alld. E..lb. .15½- —
l.c.l., frt. alld. E....lb. .16 - —
tanks, frt. alld. E....lb. .14½- —

Normal butyl alcohol prices in West, ½c per lb. higher.

secondary, dms., c.l., dlvd.lb. .11 - —
l.c.l., dlvd.....lb. .11¼- —
tanks, dlvd.....lb. .09½- —
tertiary, denat., dms., c.l..lb. .12½- —
l.c.l., dms. .....lb. .13 - —
tanks .....lb. .11 - —

Capryl, dms., c.l., works....lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16 - —

Cetyl, dom., CP., fiber ctns., 1,000 lbs..lb. 2.25 - —
smaller lots.....lb. 2.30 - 2.55

Cinnamic, bots. .....lb. 3.00 - —

Denatured, CD14, dms., c.l., works, E..gal. 1.04½- —
l.c.l., works, E.....gal. 1.07½- 1.11½
tanks, E., dlvd.....gal. .97½- —

Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf. dms., c.l., E. works..gal. 1.05 - —
l.c.l., works, E.....gal. 1.08 - 1.12
tanks, E. works.....gal. .98 - —
Anhydrous 7c. per gal. higher.
SD2B, dms., c.l., wks., E.gal. 1.05 - —
l.c.l., works, E.....gal. 1.08 - 1.12
tanks, E., works.....gal. .98 - —
SD23H, dms., c.l.....gal. 1.03½- —
l.c.l., works, E.....gal. 1.06½- 1.10½
tanks, E. works.....gal. .96½- —
SD29, denatured, with acetaldehyde, dms., c.l., E. works. gal. 1.05 - —
l.c.l., works, E.....gal. 1.09 - 1.14
tanks, E. works.....gal. .98 - —

When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.

Special solvent, dms., c.l., works, E..gal. 1.05½- —
l.c.l., works, E.....gal. 1.08½- 1.12½
tanks, E. works.....gal. .98½- —

tankcar sales require written authorization by Alcohol Tax Unit.

Diacetone, acetone-free, dms., c.l., dlvd..lb. .13 - .15½
l.c.l., dlvd. .....lb. .13½- .16½
tanks, dlvd. .....lb. .11½- .14
tech., dms., c.l., dlvd.....lb. .14½- —
l.c.l., dlvd. .....lb. .15½- —
tanks, dlvd. .....lb. .13 - —

Ethyl, 190 pf., dms., c.l., works, gal.18.15 - —
l.c.l., works .....gal.18.19 -18.24
tanks .....gal.18.08 - —
absolute, dms., c.l., wks...gal.19.12 - —
l.c.l., works .....gal.19.16 -19.21
tanks .....gal.19.05 - —

Ethylhexyl, dms., c.l., works.lb. .25 - —
l.c.l., works .....lb. .26 - —
tanks, works .....lb. .24 - —

Furfuryl, tech., cns., works.lb. .35 - —
dms., c.l., works.....lb. .22½- —
l.c.l., works .....lb. .25 - —
tanks, works .....lb. .19 - —

Isoamyl (see Carbinol, isobutyl).

Isobutyl, refd., dms., works.lb. .13 - —
tanks, works .....lb. .12 - —

Isopropyl, refd., 91%, dms., incl., c.l., dlvd..gal. .44 - .47½
l.c.l., dlvd. .....gal. .47 - .50¼
tanks, dlvd. .....gal. .37 - .38
99%, dms., incl., c.l., dlvd.gal. .47½- .50¼
l.c.l., dlvd. .....gal. .50¾- .53
tanks, dlvd. .....gal. .40½- —

Methyl (see Methanol).

Methylamyl (see Carbinol methylisobutyl).

Octyl, perfumer's grade, bots.lb. 4.00 - 4.40

Phenylethyl, dms. .....lb. 2.30 - 3.50

Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis, lb. .60 - .65

Propyl, normal, dms., works, gal. .82 - —
tanks, works .....gal. .75 - —

Tetrahydrofurfuryl, cns., Cedar Rapids, Ia...lb. .47 - —
dms., c.l., Waverly, N. Y..lb. .40 - —
l.c.l., same basis.....lb. .44 - —
tanks, same basis.....lb. .36 - —

Aldol, dms., works.....lb. .15 - —
denaturing grade, dms....gal. 1.30 - —

Aletris root, bgs.....lb. 2.00 - 2.25

Algarobilla, c.l., ex dock.... long-ton. No prices.

Algin, bbls., fib. dms.....lb. .76 - 1.00

Alizarin (see Red, alizarin).

Alkanet, root, bgs.....lb. .75 - .80

Allspice, Mexican, bgs.....lb. .14 - .14½

Allyl bromide, cbys., 5,000 lbs., works..lb. .90 - —
smaller lots, works.....lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd....lb. .14 - —
l.c.l., dlvd. .....lb. .14½- —
tanks, dlvd. .....lb. .12½- —

Aloe, Cape, cs.	lb.	.37	- .38
Curacao, kgs.	lb.	.38	- .39
Socotrine, kgs.	lb.	.46	- .47
Alsin, bbls., dms., kgs.	lb.	4.20	- 4.50
Alphanaphthol, bbls.	lb.	.57	- .58
Alphanaphthylamine, bbls.	lb.	.35	- .35¼
Alphanaphthylthiourea, fib. dms., works, frt. alld.	lb.	4.00	- 4.40
Alphapicoline, ret. dms., works, frt. equald.	lb.	.24	- .27½
Alphapinene, wks., South, tanks, gal.		1.15	- —
Alphaterpineol, dms., c.l., works,	lb.	.1340	- —
l.c.l., works	lb.	.1390	- —
tanks, works	lb.	.1200	- —
Alphatocopherol, ampuls	kilo.	750.00	- —
Althea root, NF, peeled, bls.	lb.	.40	- .45
Alum, ammonia, burnt, USP, bbls., kgs.	lb.	.16	- .18
gran., bbls., works	100 lbs.	4.00	- —
lump, bbls., works	100 lbs.	4.25	- —
powd., bbls., works	100 lbs.	4.40	- —
Potash, gran., bbls., works,	100 lbs.	4.25	- —
lump, bbls., works	100 lbs.	4.50	- —
powd., bbls., works	100 lbs.	4.65	- —
Potash-chrome, bbls.	lb.	.12½	- .15
Soda, bbls., c.l., works	100 lbs.	3.25	- —
l.c.l., dlvd.	100 lbs.	4.25	- 5.00
Alumina, classified, grade, grd., kgs., works.	lb.	.35	- .37
top grade, ground, kgs., works.	lb.	.60	- .67
unclassified, ground, kgs., works.	lb.	.10½	- .40
Acetate, basic solution, 24%, bbls., l.c.l., works.	lb.	.11	- —
20%, bbls., l.c.l., works.	lb.	.10	- —
Chloride, anhyd., com'l, dms., c.l., works.	lb.	.10	- .11
l.c.l., works	lb.	.10¼	- —
cryst., com'l, dms., c.l., works.	lb.	.06	- —
l.c.l., works	lb.	.06½	- .06¾
Alumina chloride, solution, 32°, cbys, c.l., works.	lb.	.02¾	- —
l.c.l., works	lb.	.03¼	- —
Fluoride, tech., bbls.	lb.	.25	- —
Formate, solution, 12-20° Be. bbls., c.l., works, f.o.b. equaled Phila. and Chi.	lb.	.09½	- —
l.c.l., works, same basis.	lb.	.10	- —
Hydrate, heavy, bgs., c.l., works.	ton.	56.00	- —
l.c.l., works	ton.	76.00	- —
light, bgs., dlvd.	lb.	.17	- —
Hydroxide, gel tech., min. 15% lbs. or more, f.o.b. ship't point.	lb.	.03	- .03½
ton lots, same basis.	lb.	.03¼	- .05¼
smaller lots, same basis.	lb.	.03¾	- .04
9-9½% Al_2O_3, fib. dms., works.	lb.	.17¾	- —
contract, works	lb.	.16¾	- —
14-15% Al_2O_3, fib. dms., Al (OH_3), dms., 10,000 wks.	lb.	.20¾	- —
contract, works	lb.	.19¾	- —
dried, USP XIII, fib. dms., works.	lb.	.78	- —
contract, works	lb.	.75	- —
powder, tech. (see Alumina hydrate).			
USP IX, bbls., dms.	lb.	.15	- .17
Laurate, precip., bbls.	lb.	.25	- .26
Naphthenate, 1.7% Al, 50-gal. dms., works.	lb.	.19	- —
Oleate, dms., contract	lb.	.43½	- —
Resinate, precip., dms.	lb.	.20½	- —
Stearate, dibasic, ctns., c.l.	lb.	.46	- —
l.c.l.	lb.	.47	- —
monobasic, ctns., c.l.	lb.	.46	- —
l.c.l.	lb.	.47	- —
tribasic, ctns., c.l.	lb.	.51	- —
less ton quantities	lb.	.53	- —
Alumina sulphate, com'l, bgs., c.l., works, frt. equald.	100 lbs.	1.15	- 1.30
l.c.l., works, frt. equald.	100 lbs.	1.40	- 1.50
bbls., c.l., works frt. equald.	100 lbs.	1.55	- 1.60
l.c.l., works, frt. equald.	100 lbs.	1.95	- 2.00
iron-free, bgs., c.l., works.	100 lbs.	1.95	- 2.25
l.c.l., works	100 lbs.	2.35	- 2.50
Trihydrate, heavy (see Alumina hydrate).			
Aluminum, ingots, 98-99%, 10,000 lbs.	lb.	.15	- —
pigs	lb.	.14	- —
paste, lining, extra fine, 200-lb. dms.	lb.	.56	- .60
ink, 150-lb. dms	lb.	.71	- —
standard, 200-lb. dms	lb.	.88	- —
powder, lining, extra fine, 150-lb. dms.	lb.	.93	- —
litho, 150-lb. dms	lb.	.60	- —
standard, 200-lb. dms	lb.	.62	- —
rubber comp., 200-lb. dms	lb.	.42	- —
unpolished, stand., dms	lb.	.38	- —
varnish, stand., 300-lb. dms.	lb.	.42	- —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,490 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 20,000 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Ambergris, gray, tins	oz.	8.50	-12.00
Aminoethylpropanol, cns., dms., works.	lb.	.50	- .60
Aminopyrine, bots., dms.	lb.	4.50	- 4.75

*For Your Fine Chemical Needs**

Rely on General Chemical's

Baker & Adamson Division

B&A SALICYLAMIDE *Purified* HO•C_6H_4CO•NH_2

B&A Salicylamide, Purified, is but one of the many B&A Fine Chemicals available to the drug industry in commercial quantities today. This white to slightly pink powder offers the same uniform purity lot after lot . . . an important advantage in any material for pharmaceutical manufacture. Each batch analysis reaffirms its consistently low iron and arsenical content.

B&A POTASSIUM CYANATE *Purified, Powder* KCNO Crystal, Reagent

Another B&A purity product of uniformly high quality, Potassium Cyanate is produced in both Reagent, Crystal, and Purified, Powder, grades. Thus, two forms are available for use in pharmaceutical manufacture. The Purified, which is low in undesirable impurities, is found suitable for most production purposes. It assays 97% KCNO. Where highest purity is needed for the most exacting requirements, manufacturers specify Reagent, Crystal.

FINE CHEMICALS
B&A
BAKER & ADAMSON QUALITY
STANDARD OF PURITY
FOR AMERICAN INDUSTRY

B&A DIPHENYL CARBONATE *Technical* $(C_6H_5O)_2CO$

B&A Diphenyl Carbonate (Carbonic Acid, Diphenyl Ester) is one of the many new industrial chemicals available today from General Chemical Company's Baker & Adamson Division. Already in use for certain pharmaceutical manufacturing purposes, this basic organic chemical may prove suitable for your process too. Since this white crystalline material is commercially available it merits full consideration for your research or product development programs.

★ This is the sixth in a series of advertisements reviewing the B&A Fine Chemicals commercially available to American Industry today from the Baker & Adamson Division of General Chemical Company. These three and many other B&A purity products have special applications in the field of pharmaceutical manufacture. To learn more about the above, or other B&A Fine Chemicals that meet your requirements, write or phone nearest B&A Sales and Technical Service Office.

GENERAL CHEMICAL COMPANY

BAKER & ADAMSON DIVISION

40 RECTOR STREET, NEW YORK 6, N. Y.

Sales and Technical Service Offices: Albany* • Atlanta • Baltimore • Birmingham* • Boston* • Bridgeport Buffalo* • Charlotte* • Chicago* • Cleveland* • Denver* • Detroit* • Houston • Kansas City Los Angeles* • Minneapolis • New York* • Philadelphia* • Pittsburgh* • Providence* • St. Louis* San Francisco* • Seattle • Wenatchee (Wash.) • Yakima (Wash.)
In Wisconsin: General Chemical Wisconsin Corporation, Milwaukee, Wis.
In Canada: The Nichols Chemical Company, Limited • Montreal* • Toronto* • Vancouver*

SETTING THE PACE IN CHEMICAL PURITY SINCE 1882

*Complete stocks carried here.

Ammonia acetate, reagent, crystals, bbls.	lb.	.24	-
purified, bbls.	lb.	.32	-
Anhydrous, fertilizer, tankcars, works, frt. equald.	ton.	59.00	-
pure, cyls., extra	lb.	.16	-
refrigeration, tanks, works.	ton.	61.50	-
Aqua, dms., c.l., works	lb.	.03	-
l.c.l., works	lb.	.03¼	-
tanks, works (NH_3 content).	ton.	65.00	-
Benzoate, USP, dms., kgs., 4,000 lbs., up, frt. alld.	lb.	.43	-
smaller lots, frt. alld.	lb.	.44	-
Biborate, gran., powd., bbls., c.l., works.	ton.	332.00	-
ton lots, works	ton.	388.50	-
less ton lots, works	ton.	343.50	-
Bicarbonate, dms., extra, c.l.	lb.	.06¾	-
Bichromate, bbls., works	lb.	.26	-
Bifluoride, bbls	lb.	.15	-
Bromide, gran., NF, bbls.	lb.	.28	-
dms.	lb.	.29	-
Powdered ammonia bromide 10c. per lb. higher.			
Carbonate, USP, lump, dms.	lb.	.08¼	-
powdered, 1c. per lb. higher.			
Chloride, tech. (see Ammoniac, sal).			
USP, gran., bbls., dms., kgs.,	lb.	.13	-
Citrate, dibasic, bbls.	lb.	.75	-
dms.	lb.	.80	-
Fluoride, bbls.	lb.	No sto	
Hydroxide (see Ammonia aqua).			
Hypophosphite, NF, dms.	lb.	1.25	-
Iodide, NF, jars	lb.	3.00	-
Linoleate, 80%, plastic, dms., works.	lb.	.40½	-
kgs., works	lb.	.42½	-
25%, dms., frt. alld. zone 1.	lb.	.21½	-
tech., bbls., works	lb.	.37	-
dms., works	lb.	.39	-
Molybdate, c.p., cryst., kgs.	lb.	1.26	-
fine cryst., bbls., kgs.	lb.	.84	-
purified, dms.	lb.	1.10	-
Nitrate, fertilizer grade, Canadian 32.5% nitrogen, bgs., c.l., shipping point	ton.	57.00	-
bulk, same basis	ton.	51.00	-
Nitrate-limestone, 20.5% N, bgs. Hopewell, Va.	ton.	33.00	-
Oleate, dms.	lb.	.14	-
Oxalate, fine gran., bbls.	lb.	.23	-
dms.	lb.	.25	-
Pentaborate, gran., bbls., c.l., works.	ton.	250.00	-
ton lots, works	ton.	248.50	-
less ton lots	ton.	253.50	-
Ammonia pentaborate powder. $10 per ton higher.			
Perchlorate, kgs.	lb.	No sto	
Persulphate, kgs.	lb.	.25½	-
Phosphate, dibasic, NF V, bbls. kgs.	lb.	.37	-
tech., bgs., c.l., works	lb.	.07	-
l.c.l., works	lb.	.07¾	-
monobasic, pure, bbls.	lb.	.39	-
tech., bgs., c.l., works	lb.	.07	-
l.c.l., works	lb.	.07¾	-
Salicylate, NF, dms., kgs.	lb.	1.25	-
Silicofluoride, bbls.	lb.	.15	-
Stearate, anhydrous, dms.	lb.	.34	-
paste, dms.	lb.	.06½	-
Sulphamate, bbls., dms., works.	lb.	.13	-
Sulphate, bulk, producing ovens.	ton.	30.00	-3
Sulphide, liquid, 40-45% basis 100%, dms., c.l., works.	lb.	.09	-
l.c.l., dlvd.	lb.	.15	-
tanks, dlvd.	lb.	.07½	-
red, 48%, cbys., works	lb.	.08	-
dms., works	lb.	.06	-
yellow, 33%, cbys., works	lb.	.08	-
dms., works	lb.	.06	-
Sulphocyanide, pure, bbls.	lb.	.60	-
tech., bbls.	lb.	.17	-
Thiocyanate (see Ammonia sulphocyanide).			
Thioglycollate, highly purified, 100% basis, bbls.	lb.	7.10	-
Ammoniac gum (see Gum, ammoniac).			
Sal, gray, bbls., c.l., works.	100 lbs.	7.00	-
l.c.l., works	100 lbs.	7.40	-
white, gran., bbls., c.l., works.	100 lbs.	4.75	-
l.c.l., same basis.	100 lbs.	5.00	-
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd.	lb.	.25½	-
l.c.l., dlvd.	lb.	.26¾	-
tanks, dlvd.	lb.	.24	-
ex-pentane, dms., c.l., frt. alld. E. of Miss. R.	lb.	.22	-
l.c.l., same basis	lb.	.23	-
tanks, same basis	lb.	.21	-
Alcohol (see Alcohol, amyl).			
Butyrate, dms.	lb.	.90	-
Chloride, mixed, tech., dms., c.l., works.	lb.	.07	-
l.c.l., works	lb.	.08	-
tanks, works	lb.	.06	-
Ether, dms., c.l., works	lb.	.095	-
l.c.l., works	lb.	.102	-
tanks, works	lb.	.085	-
Nitrite, USP, bots.	lb.	1.72	-
Mercaptan, dms., works	lb.	1.10	-
Salicylate, cns.	lb.	.77	-
Stearate, dms., works	lb.	.43	-
Anethol, com'l, dms., works.	lb.	.657	-
NF, dms.	lb.	.82	-
Angelica dom., atropurpurea root, bls.	lb.	1.10	-
imported, natural, bls.	lb.	1.50	-
Angostura bark, bls.	lb.	.55	-
Aniline oil, dms., c.l., works, frt. alld.	lb.	.13	-
l.c.l., works, frt. alld.	lb.	.14	-
tanks, works, frt. alld.	lb.	.12	-
Salt, dms., works	lb.	.22	-
Anise, Argentine, bgs.	lb.	.30	-
Chinese, Star	lb.	.15	-
Cyprus, bgs.	lb.	.29½	-
Mexican, bgs.	lb.	.29	-
Syrian, bgs.	lb.	.28½	-
Anisic aldehyde, dms.	lb.	2.50	-
cns., bots.	lb.	2.80	-
Annatto, paste, bxs.	lb.	.34	-
seed, bgs.	lb.	.19	-
Anthracene, 80-85%, bbls., works.	lb.	.60	-
90%, bbls., works	lb.	.81	-
Anthraquinone, 99.5%, bbls.	lb.	.70	-
Antimony butter (see Antimony chloride).			
Chloride, solut., cbys.	lb.	.17	-
Metal, bulk, c.l., mines.	lb.	.33	-
Needle, Bolivian, brown, 67% cs.	lb.	No pri	
Chinese, black, 70%, cs.	lb.	No pri	
Oxide, ceramic grade, bgs., c.l., works.	lb.	.26	-
l.c.l., works	lb.	.28¼	-
paint grade, bgs., c.l., works.	lb.	.27½	-
l.c.l., works	lb.	.28¾	-
Salt, 65%, bgs., c.l., dlvd. E. of Miss. River.	lb.	No sto	
Sulphide, 65-70%, bbls., c.l., works.	lb.	.22	-
l.c.l., works	lb.	.24	-
Antipyrine, bbls., kgs., ton	lb.	2.00	-
smaller lots	lb.	2.10	-

CARLOADS, SPOT

SULFAMIC ACID
For Weed Killer Compounds and Textile Fireproofing
PROPYLENE GLYCOL N.F.
HYDROGEN PEROXIDE

BUTYL ALCOHOL
CITRIC ACID, USP
MONOETHANOLAMINE
SODIUM PERBORATE

HANSA YELLOW No. 503
HANCOCK YELLOW No. 1006
ZINC CHROMATE YELLOW
ALKALI FAST DARK RED RM 545
INDIGO PULP 20% PIG.
No. 1148 BURNT SIENNA
DICALITE
(WHITE FILLER GRADE)
PERMANSA GREEN
PARA TONERS

LARGE WAREHOUSE QUANTITY, SPOT

PARADICHLORBENZENE
FINES, CRYSTALS AND NUGGETS

Export and Domestic Packing

WILLIAM D. NEUBERG CO., INC.

Chemicals

GRAYBAR BUILDING • 420 LEXINGTON AVE. • NEW YORK 17, N. Y.
TELEPHONE LEXINGTON 2-3324
CABLE—"WILNEUBERG"

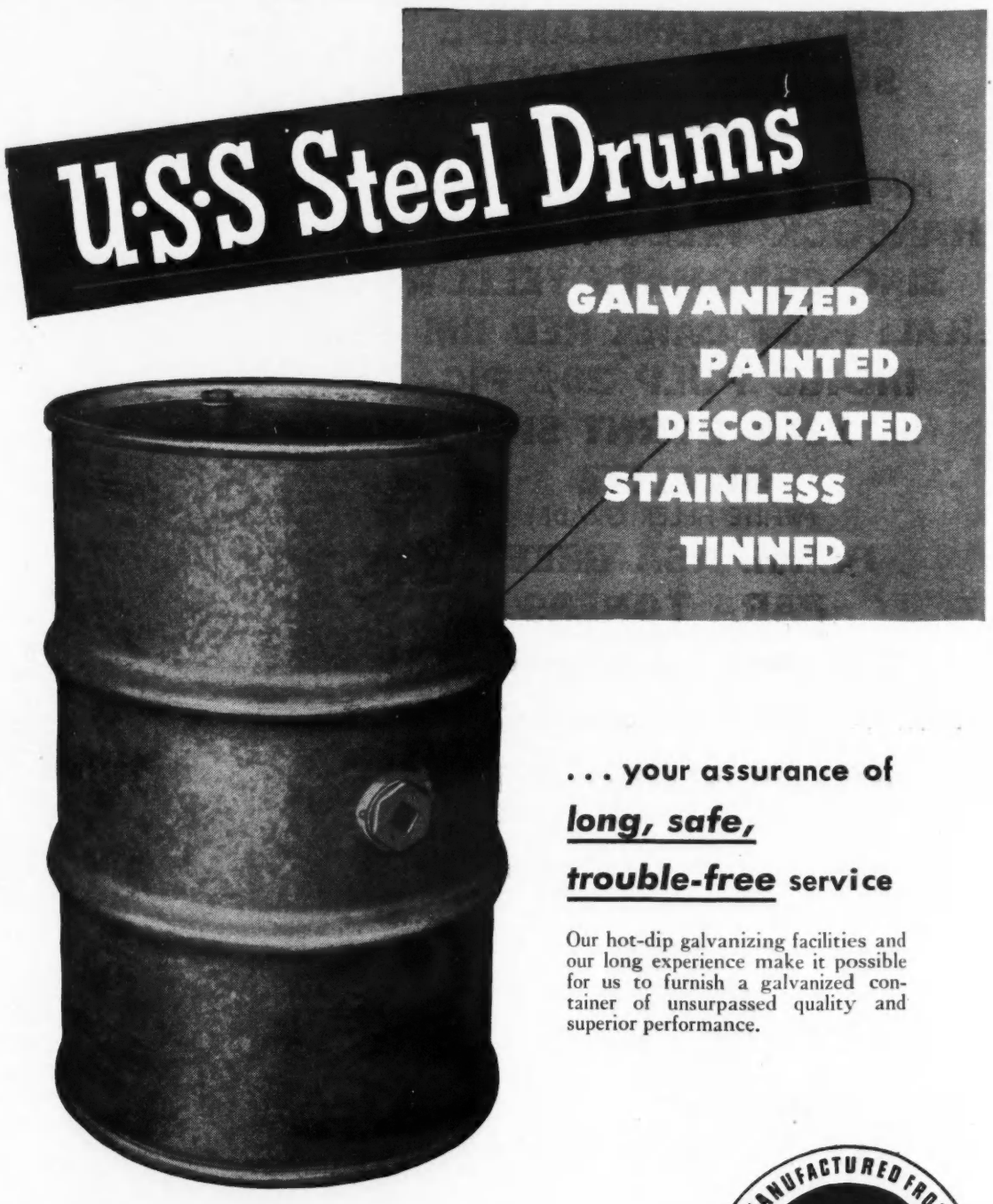
Apomorphine, bots. ..... oz. 23.20 - 23.70
Archil extract, bbls. ..... lb. No stocks.
Areca nuts, powd., bbls. ..... lb. .24 - .29
Arecoline hydrobromide, bots. oz. 6.10 - 7.10
Argols, min. 70%, bgs., shipment ports, 100 kilos (100% purity). lb. 35.00 -36.00
Arnica flowers, bbls. ..... lb. 2.10 - 2.20
Arrowroot, powd., bgs., bbls. lb. .14 - .16
Arsenic, chloride (arsenous), bots. lb. 1.55 - —
Metal, lump, c.l. ..... lb. No prices.
Sulphide, yellow, bbls. ..... lb. No stocks.
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l. ..... lb. .06 - —
l.c.l. ..... lb. .07 - .08
Asafetida, cs. ..... lb. .65 - .70
powd., bbls., dms. ..... lb. .72 - .77
Asbestine (see Talc, N. Y. fibrous).
Asbestos, fiber, 5D and 5K, bgs., c.l. (20 tons), Cana. mines, ton. 65.00 - —
5R, bgs., c.l. (20 tons), same basis. ton. 58.00 - —
6D, bgs., c.l. (30 tons), same basis. ton. 43.00 - —
7D, bgs., c.l., same basis. ton. 38.50 - —
7F, bgs., c.l., same basis. ton. 26.50 - —
7K, bgs., c.l., same basis. ton. 25.00 - —
7M, bgs., c.l., same basis. ton. 22.50 - —
7R, bgs., c.l., same basis. ton. 21.50 - —
Asphaltum, Barbados, Dunellen, N. J. ..... lb. .10¼- —
California, dms., c.l. ..... ton. 36.40 - —
l.c.l. ..... ton. 41.40 - —
Cuban, A, bulk, c.l. ..... ton. 60.00 - —
l.c.l. ..... ton. 80.00 - —
B, bulk, c.l. ..... ton. 38.50 - —
l.c.l. ..... ton. 55.00 - —
Egyptian ..... ton. No stocks.
Asphaltum, gilsonite, brilliant, black, selects, 340° F fusing point, bgs., mines... ton. 30.00 -32.00
270-295° fusing point, bgs., mines. ton. 30.50 - —
seconds, 300-390° F fusing point, not uniform, bgs., mines. ton. 25.50 - —
jet, bgs., ton lots, gross weight, Colo. mines. ton. 30.50 - —
Manjak, No. 10, crude, dms., works. lb. .05½- .12
process, form, bgs., works. lb. .05¾- .12
jet, bgs., 2,000 lbs., gross weight, Colo. mines. ton. 30.50 - —
Mexican, refd., dms., f.o.b. Tampico, Mex. metric ton. 27.50 - —
South American, refd., dms., c.l., N. J. Refy. ton. 22.00 -23.00
l.c.l., same basis. ton. 24.00 -25.00
tanks, same basis. ton. 15.00 - —
Atropine, bots. ..... oz. 10.65 - —
sulphate, bots. ..... oz. 8.75 - —

B

Balm of Gilead buds, bgs. ..... lb. 2.25 - 2.50
Barbasco root (see Cube root).
Barberry, root bark, bgs. ..... lb. .78 - .80
Barbital, dms. ..... lb. 3.50 - 3.60
sodium, dms. ..... lb. 3.75 - 3.85
Barium carbonate, precip., bgs., 10 tons and up, works. ton. 67.50 -75.00
small lots, works. ton. 74.50 -82.00
Chlorate, kgs., works. ..... lb. .27½- .31
Chloride, CP, cryst., bbls. ..... lb. .25 - .27
pure, bbls., kgs. ..... lb. .10 - .12
tech., cryst., bgs., c.l., works, ton. 85.00 - —
l.c.l., works. ..... ton. 95.00 - —
Barium dioxide, c.l., dms., works. lb. .11½- —
l.c.l., works. ..... lb. .13 - —
Fluoride, bbls. ..... lb. .14 - —
Hydrate, crystals, bgs. ..... lb. 08 - .08½
Hydroxide, bbls., works. ..... lb. .19 - —
Iodide, bots. ..... lb. 5 12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works. ..... lb. .11½- —
l.c.l., works. ..... lb. .13 - —
Oxide, dms., c.l., works. ..... lb. .09 - —
l.c.l., works. ..... lb. .10 - .11
grd., dms., l.c.l., works. ..... lb. .12 - .13
Peroxide (see Dioxide).
Silicofluoride, bbls. ..... lb. .17 - .19
Stearate, ctns., 1 ton up. ..... lb. .50 - —
smaller lots. ..... lb. .51 - —
Sulphate, tech. (see Barytes, and Blanc fixe).
X-ray, bbls. ..... lb. .10 - 10½
kgs. ..... lb. .12½- —
Sulphide, dms., works. ..... ton. 45.50 -64.00
Barytes, water-grd., paper bgs., c.l., St. Louis. ton. 31.10 - —
l.c.l., same basis. ton. 32.10 - —
ex whse., N. Y. ..... ton. 41.95 - —
Southern, off-color, bgs., mines. ton. 19.00 - —
95.75%, bgs., mines. ton. 20.00 - —
Ore, approx. 94% $BaSO_4$, bulk, mines. ton. 9.50 -12.50
Bay leaves (see Laurel leaves).
Barberry bark, bgs. ..... lb. .12 - .13
Belladonna leaves, bis. ..... lb. 2.20 Nom.
Root, bls. ..... lb. 1.75 Nom.
Bauxite, bulk, mines. ..... ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works. ton. 40.00 - —
Benzaldehyde, NF, dms. ..... lb. .68 - .80
tech., cbys., dms. ..... lb. .45 - .55
Benzene (see Benzol).
Benzene hexachloride, tech., 10% gamma, bgs., dms., c.l., works. lb. .47½- —
l.c.l., works ..... lb. .52½- .55
dust, dry, 50%, dms., c.l., works. lb. .374 - —
l.c.l., works ..... lb. .42 - .44
wet, 50%, dms., c.l., works. lb. .44 - —
l.c.l., works ..... lb. .46 - —
Benzidin base, bbls. ..... lb. .77 - —
Benzophenone, dms. ..... lb. 1.15 - 1.60
Benzol (benzene), pure, nitration and 90%, dms. ret., works, frt. alld. up to 2c. gal. .24 - —
tanks, E. of Omaha, same basis..gal. .19 - —
W. Coast, Minnequa, Colo., same basis..gal. .19 - —
Benzophenone, dms. ..... lb. 1.10 - 1.60
Benzoyl chloride, cbys. ..... lb. .25 - .28
Peroxide, pure, gran., fib. ctns., works. lb. .90 - 1.05
Benzyl acetate, f.f.c., cns. ..... lb. .75 - —
dms. ..... lb. .60 - .70
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms. lb. 1.00 - 1.40
Chloride, refined, cbys. ..... lb. .22 - —
tech., cbys., works, frt. equald. lb. .20½- —
Cinnamate, cns. ..... lb. 3.65 - 4.00
Formate, cns. ..... lb. 1.70 - 2.50
Propionate, bots. ..... lb. 1.65 - 2.00
Salicylate, bots. ..... lb. 1.75 - 2.10
Benzylidinacetone, bots. ..... lb. 2.00 - 2.70
Benzylisoeugenol, bots. ..... lb. 9.50 - —
Berberine bisulphate, cns. ..... lb. No stocks
Hydrochloride, bots. ..... lb. No stocks
Sulphate, cns. ..... lb. No stocks
Berberis root, bls. ..... lb. .30 - .35
Betanaphthol, resublimed, dms., works. lb. .72 - —
tech., bbls., c.l., works. ..... lb. .23 - .25
l.c.l., works ..... lb. .26 - .28
Benzoate, fib. dms., works. lb. 1.75 - —
Salicylate, dms. ..... lb. 5.00 - —
Betanaphthylamine, tech., works. lb. .59 —
Betagammapicoline, dms., c.l., works. lb. .4½- —
l.c.l., works ..... lb. .25 -
Betapicoline, 90%, ret. dms., c.l., works. lb. 1.60 - —
l.c.l., works. ..... lb. 1.85 - —
95% dms., works. ..... lb. 2.05 - —
98-99%, dms., works. ..... lb. 2.20 - —
Beth root, bls. ..... lb. .55 - .60
Bismuth chloride, jars. ..... lb. 4.50 - —
Citrate, USP VIII, jars. ..... lb. 3.12 - —
Hydroxide, dms. ..... lb. 4.00 - —
Metal, ton lots. ..... lb. 2.00 - —
Nitrate, cryst., cns. ..... lb. 1.60 - —
Oxychloride, cns., dms. ..... lb. 3.80 - —
Oxide, anhydrous, dms. ..... lb. 4.20 - —
Subcarbonate, USP, dms. ..... lb. 2.60 - 2.63
Subgallate, NF, fib. dms. ..... lb. 2.45 - 2.48
Subiodide, fib. dms. ..... lb. 4.13 - —
Subnitrate, USP, powd., dms. lb. 2.15 - 2.18
Subsalicylate, USP, dms. ..... lb. 3.05 - —
Sulphocarbolate, fib. dms. ..... lb. 4.05 - —
Bismuth-ammonia citrate, USP, powd., dms. lb. 3.70 - —
Black, acetylene, bgs., c.l., works. lb. .14 - —
l.c.l., works. ..... lb. .18 - —
Bone, 1A, bgs., bbls., c.l., frt. alld. dest. lb. .21 - —
1, bgs., bbls., c.l., same basis. lb. .19 - —
2, bgs., bbls., c.l., same basis. lb. .17½- —
3, bgs., bbls., c.l., same basis. lb. .16½- —
4, bgs., bbls., c.l., same basis. lb. .15½- —
5, bgs., bbls., c.l., same basis. lb. .13 - —
6, bgs., bbls., c.l., same basis. lb. .13 - —
7, bgs., bbls., c.l., same basis. lb. .16 - —
8, bgs., bbls., c.l., same basis. lb. .17 - —
457, bgs., bbls., c.l., same basis. lb. .13¼- —
490A, bgs., bbls., c.l., same basis. lb. .10 - —

Bone black, l.c.l. prices are ½c. higher than c.l. Pacific coast, ex dock, or whse., prices are 1½c. higher.

Carbon, channel, compressed, beads, bulk, c.l., works. lb. .06 - —
bgs., c.l., works. ..... lb. .0632- —
l.c.l., works ..... lb. .07 - —
dlvd. or whse. ..... lb. .102 - —
uncompressed, regular, bgs., c.l., works. lb. .074 - —
bgs., ctns., l.c.l., dlvd. or whse. lb. .11¾- —
furnace, HMF, bgs., c.l., works. lb. .05 - —
ctns., l.c.l., whse. ..... lb. .09 - —
SRF, bgs., c.l., works. lb. .06½- —
ctns., l.c.l., whse. ..... lb. .075 - —
Thermotonic, bgs., c.l., works, La. lb. .04 - —
l.c.l., whse. Trenton, N. J., lb. .06¼- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, pure bgs., l.c.l., works. lb. .09 - —
Lamp, 1, ctns., c.l., works. lb. .08¼- —
l.c.l., works ..... lb. .09 - —
2, ctns., c.l., works. ..... lb. .10 - —
l.c.l., works ..... lb. .11 - —
2A, ctns., c.l., works. ..... lb. .12 - —
l.c.l., works. ..... lb. .13¼- —
3, ctns., c.l., works. ..... lb. .14¼- —
l.c.l., works ..... lb. .15¼- —
4, ctns., c.l., works. ..... lb. .16½- —
l.c.l., works ..... lb. .17¼- —
5, ctns., c.l., works. ..... lb. .20 - —
l.c.l., works ..... lb. .20 - —
6, ctns., c.l., works. ..... lb. .25½- —
l.c.l., works ..... lb. .27½- —
7, ctns., c.l., works. ..... lb. .37½- —
l.c.l., works ..... lb. .38¼- —
Mineral, bgs., l.c.l., works. lb. 01½- .02½
Vine A, bgs. ..... lb. .03¾- .04
B, bgs. ..... lb. .05¾- .06
Black ash (see Barium sulphide).
Black dyes (see Lyes).
Black haw, root bark, bls. ..... lb. .75 - .76
Tree bark, bls. ..... lb. .35 - .43
Black Indian hemp root, bls. lb. .55 - .60
Blanc fixe, dry, by-product, bgs., c.l., works. ton. 67.50 - —
l.c.l., works. ..... ton. 72.50 - —
direct process, bgs., c.l., works. ton. 77.50 - —
l.c.l., works. ..... ton. 82.50 - —
N. Y. whse. ..... ton. 95.00 - —
bbls., c.l., works. ..... ton. 82.50 - —
l.c.l., works. ..... ton. 87.50 - —
N. Y. whse. ..... ton. 100.00 - —
soluble, bgs., l.c.l. ..... lb. .17 - —
pulp, 66%, bbls., c.l., works. ton. 55.00 - —
l.c.l., same basis. ..... ton. 60.00 - —
Bleaching powder, dms., c.l., works. 100 lbs. 2.75 - 3.00
l.c.l., works. ..... 100 lbs. 3.25 - 3.75
bbls., c.l., works. ..... 100 lbs. 3.26 - —
l.c.l., works. ..... 100 lbs. 3.75 - —



. . . your assurance of
long, safe,
trouble-free service

Our hot-dip galvanizing facilities and our long experience make it possible for us to furnish a galvanized container of unsurpassed quality and superior performance.

UNITED STATES STEEL PRODUCTS COMPANY
30 Rockefeller Plaza, New York 20, N. Y.
BENNETT MANUFACTURING DIVISION, *Chicago and New Orleans*
BOYLE MANUFACTURING DIVISION, *Los Angeles and Alameda, California*
PETROLEUM IRON WORKS DIVISION, *Sharon, Pa., Beaumont and Port Arthur, Texas*

MANUFACTURED FROM USS STEEL UNITED STATES STEEL

UNITED STATES STEEL

Blood, dried, 16-16½% ammo., bgs..unit-ton. 7.25 - —
high-grade, unground, 16-17% ammon., bulk, Chicago. unit-ton. 7.00 - —
soluble, bgs., l.c.l.....lb. .17 - —
Bloodroot, bls.....lb. .65 - .70
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.90 - —
toner, bbls., litho flushed, same basis..lb. 1.10 - —
Celestial, bbls., same basis..lb. .15 - .18
Chinese, bbls., same basis..lb. .42 - —
Cobalt, genuine, bbls., same basis..lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper, phthalocyanin, full strength, bbls., same basis. lb. 3.75 - —
80%, bbls., same basis..lb. 3.00 - —
Iron (see Blue, Chinese, Milori, Potash Prussiate, and Soda).
Milori, bbls., same basis....lb. .42 - —
Peacock, fugitive, 100% color strength, same basis..lb. .52 - —
permanent toner, green shade, molybdic, bbls., same basis. lb. 3.50 - —
tungstic .....lb. 4.00 - —
Potash, CP, bbls., same basis. lb. .48 - —
Prussian, bbls., same basis..lb. .42 - —
soluble, bbls., same basis.lb. .42 - —
Soda, CP, bronze, bbls., same basis..lb. .39 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis. lb. .24 - .28
jobbing type, dry, bbls., same basis..lb. .13 - .14
regular types, dry or pulp, bbls., same basis..lb. .18 - .19
Victoria, toner, molybdic, bbls. lb. 3.75 - —
tungstic, bbls. .....lb. 3.30 - 3.55
ink toner, bbls., same basis. lb. 1.83 - —
synthetic vehicle, bbls., same basis..lb. 2.05 - —
Violet toner, molybdic, bbls., same basis..lb. 1.24 - —
tungstic, kgs., same basis..lb. 2.50 - —

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¾c.; Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher, Pac. Coast; Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.

Blue dyes are listed under Dyes.
Blue mass, NF, cns., tube....lb. 1.47 - 1.49
powd., bots., cns., dms.....lb. 1.50 - 1.52
Blueflag, root, bls.....lb. No stocks.
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls.....lb. .11 - .12
Bone, raw bulk, Chicago....ton.75.00 - —
junk, bulk, same basis..ton.50.00 -52.00
Meal, raw 4½% ammon., 50% phos., bgs., E. works.. ton 65.00 - —
Chicago, works..ton.60.00 - —
steamed, feeding grade, 1% ammon., 60% phos. bgs., E. works..ton.65.00 - —
Chicago, works....ton.65.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works. ton.60.00 - —
Chicago, works....ton.60.00 - —
Phosphate, defluorinated (see D.).
Precipitated (see Calcium phosphate tribasic precip.).
Boneset leaves, bls.....lb. .17 - 18
Borage flowers, bls.....lb. .60 - .62
Borax, tech., 99½% cryst., paper bgs., c.l., works, frt. alld. ton.53.50 -56.00
ton lots, ex whse., N. Y. or Chi..ton.71.00 - —
less ton lots, same basis. ton.76.00 - —
bbls., c.l., works, frt. alld. ton.73.50 - —
ton lots, ex whse., N. Y. or Chi..ton.91.00 - —
less ton lots, same basis. ton.96.00 - —
fine gran., bulk, works..ton.44.50 -47.50
paper bgs., c.l., works, frt. alld..ton.48.50 - —
ton lots, ex whse., N. Y. or Chi..ton.66.00 - —
less ton lots, same basis. ton.71.00 - —
bbls., c.l., works, frt. alld. ton.68.50 - —
ton lots, ex whse., N. Y. or Chi..ton.86.00 - —
less ton lots, same basis. ton.91.00 - —
powdered, paper bgs., c.l., works, frt. alld..ton.53.50 - —
ton lots, ex whse., N. Y. or Chi..ton.71.00 - —
less ton lots, same basis. ton.76.00 - —
bbls., c.l., works, frt. alld. ton.73.50 - —
ton lots, ex whse., N. Y. or Chi..ton.91.00 - —
less ton lots, same basis. ton.96.00 - —

Borax packed in kgs is $40 per ton higher than borax packed in paper bags. USP, $15 per ton higher.

Bordeaux mixt., bgs., c.l., whse., works, frt. alld..lb. .15 - .21
l.c.l., same basis.....lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., frt. alld. E. of Rockies..lb. .23 - —
single pkgs., same basis..lb. .28 - —
Brazilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - 1.70
cbys. .....lb. 1.42 - —
Bromstyrol .....lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., 100-lb. cans, dms., works..lb. .50 - .60
gold, moulding, 100-lb. cans, dms., same basis..lb. .80 - 1.00
printing ink, 100-lb. cns., dms., same basis..lb. .95 - 1.10
radiator, 100-lb. cns., dms., same basis..lb. .60 - .65
Broomtop, bls. .....lb. .29 - .30
Brown, iron-oxide, pure, precip., cks., works..lb. .10¾- .12
Metallic, bgs., c.l., works.lb. .02¾- .02¾
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, American, works, pap. bgs., l.c.l..lb. .06¾- .10¾
Italian type, bgs., works. lb. .10¾- .14
raw, American, bgs., l.c.l., works..lb. .05¾- .10¾
Italian type, bbls., works. lb. .11¾- .12¾
Umber, burnt, American, bbls., works..lb. .05 - —
Italian-type, bbls., works.lb. .05 - —
Brown, umber, burnt, Turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa.; N. Y..lb. .05¼- .05¾
raw, Turkey-type, same basis. lb. .05½- —
Vandyke, reg., bbls., works.lb. .10 - .11
special, bbls., works.....lb. .12 - —
Brucine, cns., 100 ozs.....oz. .40 - .50
Sulphate, cns., 100 ozs.....oz. .40 - .45
Bryonia root, bls.....lb. .45 - .50
Buchu leaves, bls.....lb. 1.10 - 1.15
Buckthorn bark, bls.....lb. .34 - .35
cut and sifted, bbls.....lb. .45 - .46
Berries, bgs.....lb. 1.00 - 1.10
Burdock root, bls.....lb. .55 - .56
Butyl acetate, normal, ferment, Ill., Ind., prod., dms., c.l., frt. alld. E. of Miss. R..lb. .30½- —
l.c.l., same basis..lb. .31½- —
tanks, same basis..lb. .29 - —
tankwagon, same basis. lb. .29½- —
other production, dms., c.l., same basis..lb. .30½- —
l.c.l., same basis...lb. .31½- —
tanks, same basis....lb. .29 - —
synthetic, dms., c.l., same basis..lb. .15¼- —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .14½- —
secondary, dms., c.l., dlvd. E. of Miss. R..lb. .1260- —
l.c.l., same basis.....lb. .1310- —
tanks, same basis.....lb. .1150- —

Normal butyl acetate, W. of Miss. R., ½c. per lb. higher.

Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ether (see Ether, butyl).
Butyl lactate, dms., c.l., frt. alld. E. of Rockies..lb. .40½- —
l.c.l., same basis.....lb. .41½- —
tanks, same basis.....lb. .39 - —
Laurate, dms., works.....lb. .42 - —
Myristate, dms., works.....lb. No prices
Oleate, ref., dms., l.c.l., works. lb. .35 - —
tech., dms., c.l., works....lb. .24 - —
l.c.l., works.....lb. .24½- .25½
Phenylacetate, dms.....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd.....lb. No stocks
tanks, dlvd.....lb. No stocks
Stearate, dms., l.c.l., frt. alld. E. of Rockies..lb. .45 - —
Butyric ether, bots.....lb. 6.50 - 6.90
cns., works.....lb. .65 - .70
dms., works.....lb. .60 - —

C

Cadmium bromide, jars.....lb. 1.68 - 1.91
Iodide, cns.....lb. 4.49 - 4.64
Lithopone (see Yellow).
Metal, ingots or sticks, dlvd.. lb. 1.75 - 1.80
pat. shapes, cs., dlvd.....lb. 1.75 - 1.80
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, dms., 100 lbs. or more. lb. 3.75 - 7.00
anhydrous, dms., 100 lbs. or more..lb. 4.00 - —
Citrated, dms., 100 lbs. or more. lb. 2.50 - —
Hydrobromide, bots.....lb. 5.91 -5.92
Calabar beans, bgs., futures..lb. .65 - .66
Calamus root, natural, dom., bls. lb. .40 - .45
imported, bleached, bls..lb. .70 - .80
160 lbs 3.00 - 4.00
Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works..gram. 4.00 - —
1,000 to 10,000 s.u., works. gram. 4.40 - —
less than 1,000 s.u., works. gram. 4.80 - —
Inedible oil, dms., 10,000 or more, s.u., works...unit. .10 - —
1,000 to 10,000 s.u., works. unit. .11 - —
less than 1,000 s.u., works. unit. .12 - —
Calcium acetate, bgs., dlvd... Arsenate, dealers, dms., c.l., whse., wks., frt. alld..lb. .09½- —
l.c.l., 96 lbs. or more.....lb. .10½- .11½
Bromide, N.F., jars.....lb. .70 - —
Carbide, dms., c.l., works, ton.50.00 - —
dlvd. .....ton.87.00 -90.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars..lb. .28 - .30
flake, 77-80%, paper bgs., c.l., dlvd..ton.21.50 -38.00
l.c.l., dlvd.....ton.31.50 -48.00
liquor, basis 40%, tanks, wks. ton. 8.50 - —
solid, 73-75%, dms., c.l., dlvd. ton.21.00 -37.50
l.c.l., dlvd.....ton.31.00 -34.13

Calcium chloride prices vary according to zone; minimum prices are for spot delivery. C.l. prices for flake in burlap bgs., $2.50 per ton higher; dms., $3.50 per ton higher.

Cyanide, dms., delivered E. of Rockies..lb. .25 - .40
Gluconate, USP, bbls.....lb. .58 - .65
cns. .....lb. .76 - .83
Calcium, gluconate, AA grade, 7c. per lb. higher.
Hydride, dms., works.....lb. .90 - —

Spot Deliveries

CASTOR OIL

BLEACHING POWDER
35-37% AND 70%

GLYCERINE C.P.

ACETYL SALICYLIC ACID

TRICHLORETHYLENE

POTASSIUM PERMANGANATE

SODIUM SULPHATE
ANHYDROUS

OTHER SPECIAL PRODUCTS
Distributors for THE RUFERT CHEMICAL COMPANY
NICKEL FORMATE • Also NICKEL CATALYST • NICKEL CARBONATE
NICKEL OXIDE, etc.

GOLWYNNE
CHEMICALS CORPORATION
420 LEXINGTON AVENUE • NEW YORK 17, N. Y. • PHONE LE 2-9740

Glycerophosphate, N.F., fib. dms..lb. 1.90 - —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies..dm.24.00 -28.50
cans, 45-lb. cases, same basis. cs.19.75 -21.50
Iodide, jars..lb. 4.12 - —
Lactate, USP, powd., dms..lb. .40 - .50
Laurate, bbls. ..lb. .28 - .30
Mandelate, USP, dense, fluffy, works, dms..lb. 2.05 - 2.30
Naphthenate, 5% Ca, 50-gal. dms..lb. .27 - —
Pantothenate, dex., jars...kilo.75.00 - —
Phosphate, feeding grade, bgs., works..ton.75.00 - —
food grade, bbls., 10 or over, works..lb. .07 - .07¾
less than 10, works.....lb. .06 - .10
medicinal, dibasic, bgs.100 lbs.11.40 -19.00
monobasic, cryst., bgs., c.l., works, frt., equald..lb. .05¾- —
l.c.l., frt. equald.....lb. .06 - .06½
tribasic, bbls., c.l., works..lb. .0635- —
bgs., l.c.l., works.....lb. .0645- .0650
Phytate, bgs., works.....lb. .16 - .17
Resinate, precip., 5.8% Ca, 100-lb. dms..lb. .20 - —
Silicate, hydrated, c.l., bgs., works..lb. .05½- —
l.c.l., works.....lb. .06 - —
Stearate, precip., ctns., 2,000 lbs. to c.l., works..lb. .45 - —
l.c.l., works .....lb. .46 - —
Sulphate (see Gypsum).
Sulphide, 76%, bgs., c.l., works. ton.45.00 - —
80%, bgs., c.l., works....ton.50.00 - —
luminous, tins, works.....lb. 1.25 - —
Sulphocarbolate, bbls., dms..lb. .49 - .54

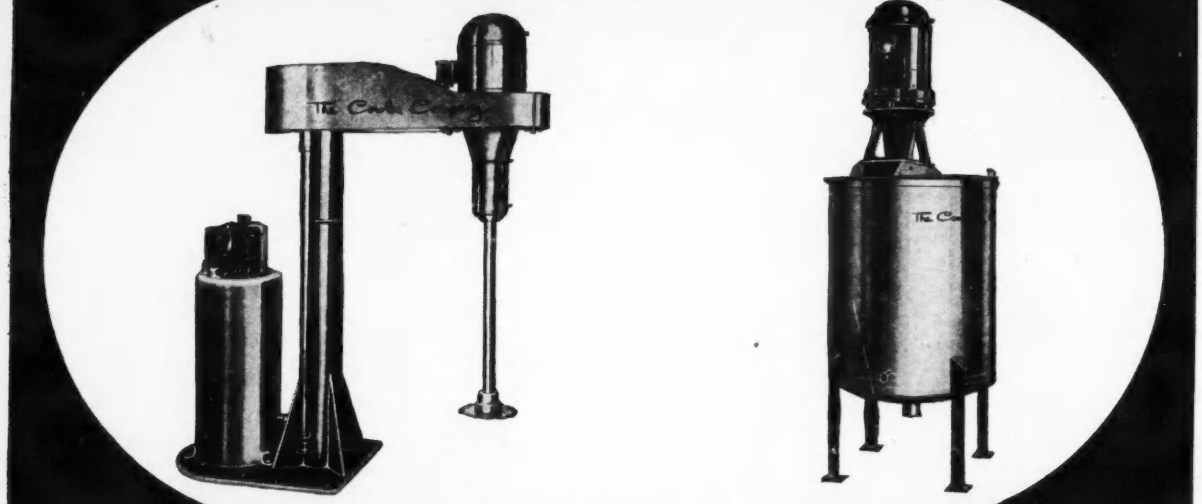
Calcium-strontium sulphide, phosphorescent, dms., works..lb. 1.06 - 1.50
fine particle size, works. lb. 1.50 - 1.75
Calendula flowers, bls.....lb. 1.00 - 1.05
Calomel, USP, dms.....lb. 2.10 - 2.11
fine powd., dms.....lb. 2.25 - 2.26
Camphor, monobromated, dms.lb 3.20 - —
Camphor, natural.....lb. No stocks
synth., tech., bbls., contract, 2,000 lbs. or more, works..lb. .48 - —
10 bbls. (1,500 lbs.)....lb. .50½- —
5 to 9 bbls.....lb. .51 - —
1 to 4 bbls.....lb. .53 - —
smaller lots.....lb. .54 - .61
USP, gran., powd., bbls., 2,000-lb. lots..lb. .75 - —
1,000-lb. to 2,000-lb. lots..lb. .76 - —
smaller lots.....lb. .77 - —
tablets, 2,000-lb. lots.....lb. .89 - —
1,000-lb. to 2,000-lb. lots..lb. .90 - —
smaller lots.....lb. .91 - —
Canada balsam (see Fir balsam).
Cantharides, Russian, bgs....lb. 7.00 - 7.25
powdered, bxs.....lb. 7.25 - 7.50
Chinese, cs. .....lb. 4.00 - 4.25
powd., bxs. .....lb. 4.25 - 4.50
Capsicum (see Pepper, red).
Capsicum oleoresin, USP VII, cns..lb. 4.50 - 4.65
Caramel coloring, bbls.....gal. 1.25 - —
Caraway seed, Danish, bgs....lb. .25 - .25½
Dutch, bgs. .....lb. .25¾- .26¼
futures, bgs.....lb. .26 - .26½
Syrian, natural, bgs.....lb. .19 - .20
Carbazole, 97%, dms., ton lots, works..lb. 1.10 - —
smaller lots, works.....lb. 1.20 - —
Carbinol, butyl, norm. dms., l.c.l., works..lb. .42 - —
secondary, dms., l.c.l., works, lb. .70 - —
Isobutyl, dms., c.l., works..lb. .51 - —
l.c.l., works.....lb. .52 - —
tanks, works.....lb. .50 - —

Methylisobutyl, dms., c.l., nearest delivery point, buyer's works..lb. .14½- —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .12 - —
Carbon bisulphide, 50-gal. dms., c.l., frt. alld. E. of Miss. R., N. of Ohio R..lb. .05 - —
5-gal. dms., c.l., same basis. lb. .07 - .07¼
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls. .....lb. .06 - .06
Tetrachloride, c.p., dms., c.l., lb. .09 - —
l.c.l. .....lb. .09½- —
tech., Zone 1, 52½-gal. dms., c.l., frt. alld..lb. .06½- —
Zone 2, 52½-gal. dms., c.l., frt. alld..lb. .07 - —
l.c.l., frt. alld.....lb. .07 - —
Zone 3, 52½-gal. dms., c.l., frt. alld..lb. .07½- —
l.c.l. frt. alld.....lb. .08 - —
Zone 4, 52½-gal. dms., c.l., lb. .07 - —
l.c.l., frt. alld.....lb. .07½- —
l.c.l., same basis.....lb. .05¾- —
l.c.l., frt. alld.....lb. .07½- —
USP, cbys. .....lb. .17 - .19

Carbon tetrachloride prices are frt. alld. with the exception of Zone 4, where prices are f.o.b. cars L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W of Billings.

Cardamom, bleached, bold, cs. lb. 1.45 - 1.50
medium, cs. .....lb. 1.35 - 1.40
decorticated, Guatemalan, cs.lb. 1.18 - 1.20
India, cs. .....lb. 1.18 - 1.20
green, Alleppey, bgs.....lb. 1.00 - 1.05
Carotene, crystl., 1,350,000 A units per gm., tins, works, 1,000,000 units. .50 - —
research grade (alpha, 10%, beta, 90%), amps., 100 grams, dlvd., gram. 2.85 - —
50 grams, dlvd.....gram. 2.90 - —
in vegetable oil, 250,000 USP units per gm., bots., works. lb.37.80 - —
50,000 USP units per gm., bots., works..lb. 8.43 - —
dms., works.....lb. 7.68 - —
3,000 A units per gm., tins, works, 1,000,000 units. .55 - —
dms., works, 1,000,000 units. .60 - —
3,300 USP units per gm., dms., works..lb. .66 - .71
Carvel, bots.....lb.14.25 -16.00
Cascara sagrada bark, bulk..lb. .40 - .42
Case - hardening mixture, 30% gran., dms., l.c.l..lb. .09¾- —
slabs., dms., l.c.l.....lb. .08¾- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point..lb. .24½- .25
rennet-precip., 10,000 lbs. or more, same basis..lb. .30 - —
imp., acid-precip., ground, bgs., 100 bgs. or more..lb. .28 - —
rennet - precip., unground, 100 bgs., or more..lb. No prices
smaller lots .....lb. .32 - —
Cassia, Batavia, No. 1, Thinquilli, bls..lb. .60 Nom.
Pedang, No. 1, bls.....lb. .30 - .31
shortstick, bls. .....lb. .50 Nom.
broken, bls. .....lb. .24 - .25
China, buds, bgs.....lb. .21½- .22
rolls, selected, cs.....lb. .09 - .09½
extra select, broken, bls..lb. .07 - .07½
Kwangsi, broken, bls.....lb. .15½- .16
Saigon, all medium.....lb. .23 - .24
4-10-4, bls. .....lb. .23 - .24
broken, bls. .....lb. .19 - .19½
Yunnan, bls. .....lb. .14 - .14½
Cassia fistula, bskts.....lb. .26 - .28
Castor beans, new crop, June-July, bgs., Brazilian ports. long ton.170.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works..ton.37.50 - —
Castoreum, nat., cns.....lb.39.00 - —
synthetic, cns. .....lb. No prices
Catechol, CP, cryst., works, fib. dms..lb. 2.00 - —
resublimed, works, dms....lb. 3.25 - —
Catnep, bls. .....lb. .35 - .40
Celery seed, French, bgs.....lb. .20 - .21
Indian, bgs. .....lb. .17½- .19
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 - —
granules, ctns., same basis.lb. .42 - —
Acetate-butyrate, flake, medium butyryl content, 36.5%, 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .51 - —
1,000-4,900 lbs., frt. alld. lb. .52 - —
50-lb. ctns., 100-900 lbs., frt. alld..lb. .53 - —
smaller lots, works....lb. .54 - —
low, 15.5 to 17%, 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .49 - —
1,000-4,900 lbs., frt. alld. lb. .50 - —
100-900 lbs., frt. alld.lb. .51 - —
smaller lots, works..lb. .52 - —
powd., high butyryl content, 47-50%, 50-lb. ctns., 5,000 lbs. up, frt. alld..lb. .57 - —
1,000 to 4,900 lbs., same basis..lb. .58 - —
100 to 900 lbs., same basis..lb. .59 - —
smaller lots, works....lb. .60 - —
Granules are 6c. per lb. higher, all quantities.
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .40 - —
Cerium hydrate, dms., works..lb. 1.00 - —
Oxalate, NF, bbls., kgs., works. lb. .70 - .73
Oxide, optical grade, bgs., under 100 lbs., works..lb. 2.25 - —
kgs., 100-lb. lots, works..lb. 1.75 - —
Chalk, precipitated, cosmetic, dentifrice, and drug, bgs., c.l., works..lb. .02¾- —
paint and other industries, bgs., c.l., works..ton.40.00 - —
papermakers, bgs., c.l., works. ton.32.50 -40.00
rubbermakers, bgs., c.l., works. ton.30.00 - —
Chamomile, Hungarian, cs., futures..lb. .65 - .70
Roman, bls., futures.....lb. 1.45 - 1.50
Charcoal, hardwood, lump, bulk, c.l., works..ton.39.50 -43.50
bur. bgs., extra, returnable, c.l., works..ton.42.50 -45.50
briquets, bulk, c.l., works.ton.49.50 - —
bgs., c.l., works.....ton.54.50 -55.50
granular, bgs., incl., c.l., wks. ton.50.50 - —
screenings, bgs., works...ton.33.50 - —
Pinewood, lump, bgs., c.l., works, South..ton.35.00 - —
granular, powd., bgs., c.l., works, South..ton.40.00 - —
l.c.l., works.....ton.50.00 -60.00
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract, 25% tannin, bbls., c.l., works.....lb. .0435- —
l.c.l., works.....lb. .0460- —
tanks, works.....lb. .0375- —
powdered, 65% tannin, bags, extra, c.l., works.....lb. .1040- —
l.c.l., works.....lb. .1115- —
China clay, dom., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton.12.00 - —
l.c.l., works...ton.16.00 - —
bulk, c.l., works.ton. 9.00 - —
200 mesh, bgs., c.l., works..ton.12.00 - —
l.c.l., works.....ton. 9.50 -15.50
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works.ton.12.50 - —
imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..ton.51.25 - —
powd., cks., l.c.l., ex whse. ton.71.75 - —
Chloral, dms., works.....lb. .45 - .50
Hydrate, jars.....lb. .93 - .98
Chlorinated rubber, standard, ctns., 100 lbs. up, works.lb. .40 - —
smaller lots, works.....lb. .43 - —
1-lb. bots, ex whse.....lb. 1.25 - —

New MOLECULAR Scrubbing Action
DISSOLVES DISPERSES
From 25 MINUTES to 10½ HOURS Faster



COWLES DISSOLVER

A high-speed machine that develops high-velocity interface shear

Turning at a rate of speed that dissolves or disperses from two to twenty times faster than the conventional mixer, the impeller of the Cowles Dissolver is scientifically designed to set up components of laminar flow. Each lamina, moving at a different rate of speed from its neighbors, creates interface shear between surfaces of molecular thickness. The multiple surfaces and high velocity gradients of these laminae subject every particle of the materials being treated to molecular tension and scrubbing, greatly accelerating the dissolving or dispersing action. Undissolved residues are held to low levels and more homogeneous mixtures are produced. Splash and dead spots are eliminated. Turbulence and aeration are held at low levels, though controlled aeration can be had if desired.

Safe, Silent, Long-Wearing

Sound design and rugged structure . . . plus finely machined materials of high physical properties . . . all assure maximum life with minimum maintenance requirements. A high degree of static and dynamic balance has been achieved in the rotating parts, eliminating noise, vibration.

Models With or Without Tanks

In two models—with built-in tanks in capacities of 100 gallons, 250 gallons and 500 gallons, or for use in tanks brought to the machine. Motor speed and horsepower adjusted to the need. Explosion-proof motors on special order. Write for descriptive folder, or ask for a technical representative to call.

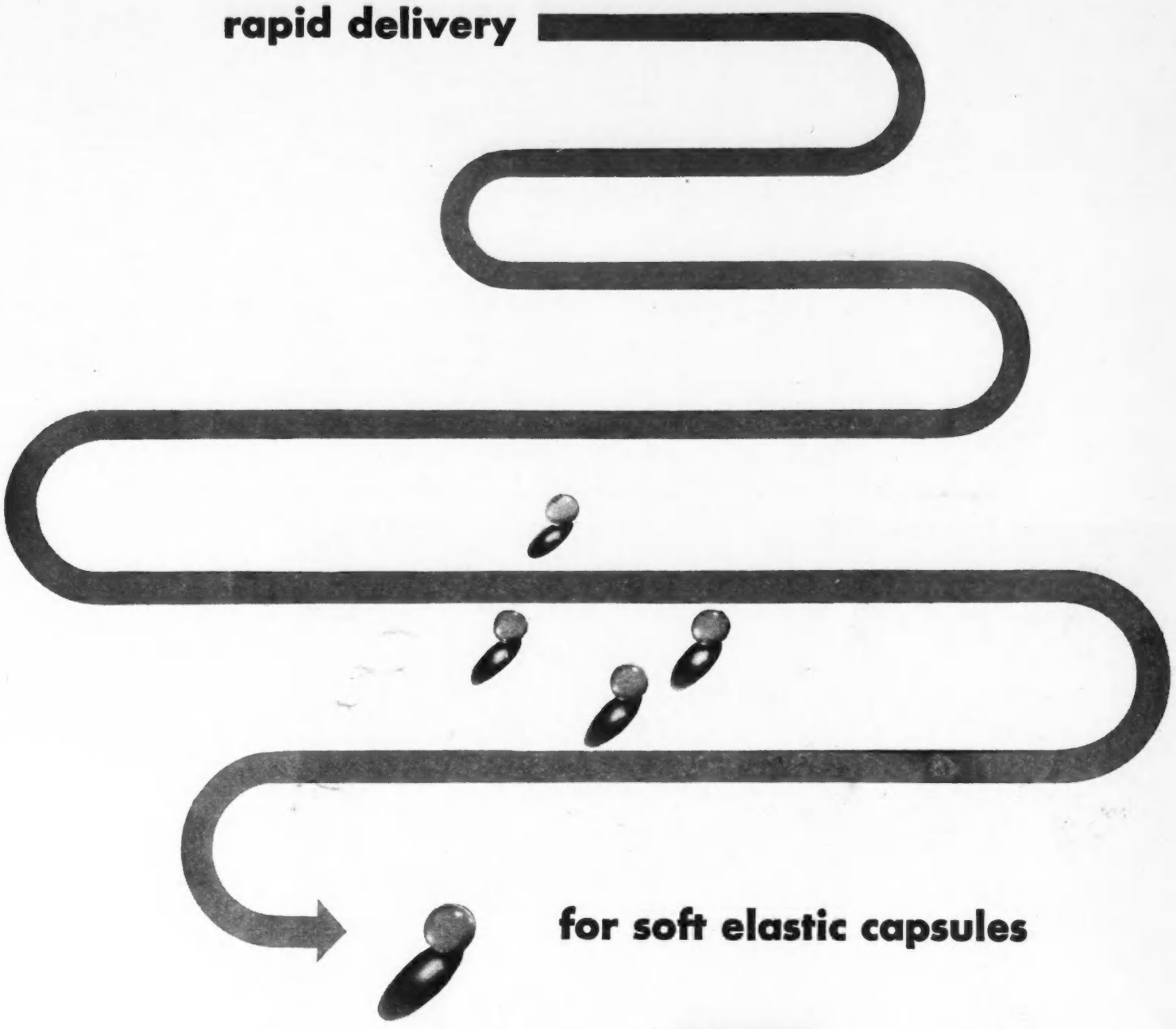
5 Years of Commercial Test Show Cowles Dissolver Up to 10½ Hours Faster on Typical Operations

Type Operation	*Material*	*Cowles Dissolver*	*Standard Mixer*
Gum Cutting	Rosin	1½ Hrs.	12 Hrs.
Synthetic resin dissolving	Vinylite	1 Hr.	6 Hrs.
N/C solution	Nitrocellulose	12 Min.	90 Min.
Tinting	Enamel	5 Min.	30 Min.
Pigment dispersion	Heavy enamel	6 Min.	150 Min.
Coating suspension	H. T. Clay	1 Hr.	9 Hrs.

The Cowles Company INCORPORATED

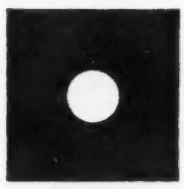
Cayuga, N. Y. *Associate: Alexander Fleck, Ltd., Ottawa, Ont.*

rapid delivery

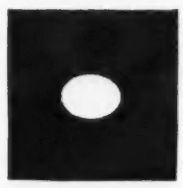


for soft elastic capsules

3 and 4 minim round capsules



3, 5 and 7½ minim ovals



SOFT ELASTIC CAPSULES — various sizes and types — are streaming forth from Strong Cobb capsulating machines. • We are manufacturing large quantities of 3 and 4 minim round capsules and 3, 5 and 7½ minim ovals. *Other sizes and shapes will be added as the demand arises.* • Our new machines assure a *positive fill.* They are producing both clear and opaque capsules in many colors. Piston-type fillers measure accurately the individual dosage. • THE CAPSULE DIVISION operates under the same rigid laboratory and plant control as all divisions in our organization. Up-to-the-minute research laboratories are running continuous studies on the improvement of formulae and capsulating methods. • If you are considering immediate or future capsule manufacture write for samples of our fine products.

Strong Cobb & Company, Inc.

Strong Cobb Division of Standard Brands Incorporated
Cleveland 4, Ohio

Chlorine, liquid, cyls., c.l., del. lb. .06¾- —
contracts, del. .....lb. .06¾- —
l.c.l., del. .....lb. .09 - .10¼
tanks, single units, works, frt. equald..100 lbs. 2.00 - —
multiple units, 3 cars or more, works, frt. equald. 100 lbs. 2.80 - —
2 cars, works, frt. equald. 100 lbs. 2.90 - —
1 car, works, frt. equald. 100 lbs. 3.50 - —
Chloroform, tech., dms.....lb. .20 - .25
USP, dms.....lb. .30 - .33
Chloropicrin, com'l, 180-lb. cyls. lb. .80 - —
100-lb. cyls., same basis.lb. .82 - —
25-lb. cyls., ex whse.....lb. 1.00 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Choline chloride, fib. dms., works. lb. 3.00 - 3.10
feed grade, fib. dms., works. lb. 2.00 - —
Dihydrogen citrate, fib. dms., works..lb. 3.00 - 3.10
Chrome acetate, powd., 72% Cr., bbls., works..lb. No stocks.
solut., 7½%, bbls., cs.....lb. .09¼- —
8½%, bbls., cs.....lb. .09¾- —
Fluoride, bbls., works.....lb. .24 - .27
Cake, bulk, c.l., works....ton.16.00 - —
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots.....lb. 6.02 - 8.00
Cinchona bark, red, quill, USP, 10-in., can..lb. 1.26 Nom.
Cinchonidine, small, cryst., cns., 100 ozs..oz. 1.02½- —
Cinchonine, large cryst., cns., 100 ozs..oz. .79½- —
small cryst., cns., 100 ozs..oz. .75½- —
sulphate, NF, cns., 100 ozs..oz. .85½- —
Cinchopen, NF, heavy, dms., works..lb. 4.20 - 4.30
standard, dms., works....lb. 4.00 - 4.10

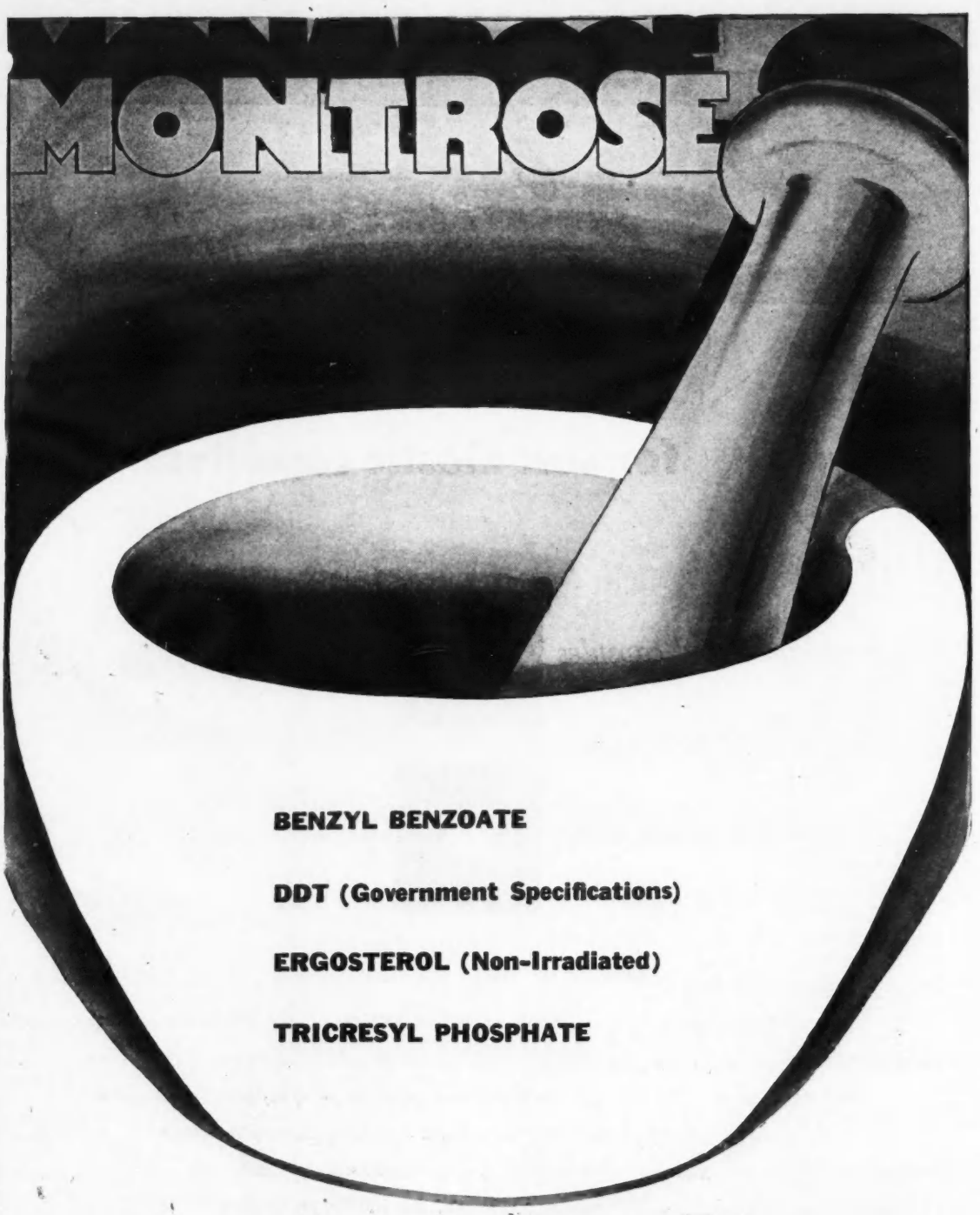
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms..lb. .82 - 1.25
Cinnamon, Ceylon, No. 2, bls., futures..lb. .47 - .48
Citral, bots., cns.....lb. 5.15 - 7.70
Citronellal, bots., dms.....lb. No prices.
Citronellol, bots., dms.....lb. 8.85 -10.40
Clove, Madagascar, bls.....lb. .12 - .12½
futures, bls.....lb. .12 - .12½
Zanzibar, bls.....lb. .16 - .16½
Clover tops, red, dom., bgs....lb. .65 - .70
imported, bgs. .....lb. No stocks.
Coaltar, coal-gas, crude, 50 gal., dms., c.l., works..dm. 9.50 - —
l.c.l., works .....dm.10.00 - —
tanks, works .....gal. .09 - —
refd., 50-gal. bbls., c.l., works. bbl.10.00 - —
l.c.l., works .....bbl.10.50 - —
tanks, works .....gal. .10 - —
water-gas, crude, 55-gal. dms., c.l., works..dm. 9.50 - —
l.c.l., works .....dm.10.00 - —
tanks, works .....gal. .09 - —
refd., 55-gal. dms., c.l., works. dm.10.00 - —
l.c.l., works.....dms.10.50 - —
Cobalt acetate, bbls., kgs., dlvd. lb. .83¾- —
Carbonate, powd., bgs., works. lb. 1.58 - —
feed grade, 49½% Co, kgs.lb. 1.58 - —
Chloride, kgs., works.....lb. .87½- —
feed grade, 24.5% Co, kgs.lb. 1.25 - —
Hydrate, bbls. .....lb. 2.04 - —
feed grade, 62% Co, kgs...lb. 2.04 - —
Linoleate, paste, 6%, dms..lb. .60 - —
solid, 8½%, dms.....lb. .68½- —
Naphthalene, solid, 6% Co, dms. lb. .85½- —
Nitrate, feed grade, 20.4% Co, bbls..lb. .75¾- —
Oleate, bbls. .....lb. .44 Nom.
Oxide, black, kgs.....lb. 1.16 - —
Phosphate, feed grade, 34% Co, kgs..lb. 1.26½- —

Cobalt resinate, precip., 7.5% Co, 100-lb. dms..lb. .88½- —
Soyate, 3%-3.5% Co, 50-gal. dms..lb. .42 - .44
Sulphate, dms.....lb. .65 - —
feed grade, 21% Co, kgs....lb. 1.00 - —
Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.
Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, 100-oz. lots, cns..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .67 - .68
silver, Teneriffe, bgs.....lb. .69 - .70
Cocoa butter, bulk.....lb. .57 - .58
Cocillana bark, bgs.....lb. .49 - .50
Codeine, cns., 100ozs.....oz.11.70 - —
Hydrochloride, cns., 100 ozs.oz.10.50 - —
Phosphate, cns., 100 ozs....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls.....lb. .24 - .25
blue, bls. .....lb. .24 - .25
Colchinine, bots., cns.....oz. No stocks.
Colchicum seed .....lb. 6.00 Nom.
Collodion, USP, dms. .....lb. .24 - .29
Flexible, USP, dms. .....lb. .25½- .30½
Colocynth pulp, bls.....lb. .50 - .52
Colombo root, bls.....lb. .15 - .16
Coltsfoot leaves, bgs.....lb. .43 - .44
Condurango bark, bgs., futures, lb. .25 - .26
Copaiba balsam, Para, cns....lb. No stocks.
S. A., USP, cns.....lb. .85 - .90
Copper acetate, cupric, bbls., works..lb. .28 - —
smaller containers, wks..lb. .29 - .30
Carbonate, 52-54%, bbls....lb. .24 - .26
Chloride, anhyd., bbls.....lb. .28½- —
crystals, bbls. .....lb. .17¾- —
Cyanide, tech., bbls.....lb. .40½- —
Hydrate, dms., del. E. Miss.lb. .26¼- .26¾
Metal, electrolytic .....flb. .21½- .24
Naphthenate, liquid, 8% Cu, dms., dlvd..lb. .21 - —
solid, 11% Cu, dms., dlvd.lb. .27½- —

Copper nitrate, tech., cryst., bbls., works..lb. .25 - .25
Oleate, precip., bbls.....lb. .32½- —
Oxide, black, bbls., works..lb. .29 - .30
red, com'l, bbls., works....lb. .30 - .38
Oxychloride-sulphate, bgs...lb... .24 - —
Resinate, precip., 8.5% Cu, 125-lb. dms..lb. .21½- —
Stearate, bgs., works.....lb. .35½- —
Sulphate cryst., 99%, bgs., c.l., works..100 lbs. 7.60 - —
l.c.l., 100 to 36,000 lbs.. 100 lbs. 7.85 - 8.00
monohydrated, 35%, dms., c.l., dlvd..100 lbs.12.55 -12.80
l.c.l., dlvd. .....100 lbs.13.55 - —
tribasic, dealers, bgs., works. c.l..lb. .21½- .22¼
l.c.l., same basis.....lb. .23 - .23½
Copperas, cryst., gran., bgs., c.l., works..ton.17.00 - —
l.c.l., works.....100 lbs. 1.55 - 2.00
bbls., c.l., works.....ton.20.00 - —
bulk, c.l., works.....ton.14.00 - —
Copra, c.i.f., Pacific ports....ton.185.00 - —
c.i.f., Atlantic or Gulf ports..ton.191.00 - —
Coriander seed, Argentine, bgs., lb. .05 - .05½
Indian, bgs.....lb. No stocks
Italian, bgs.....lb. .06¼- .06¾
Morocco, bgs.....lb. No stocks
Peruvian, bgs.....lb. .06½- .07
Corn silk, bls.....lb. .38 - .40
Corn sugar, tanners, chipped, bgs., c.l., 60,000 lbs. min. 100 lbs. 6.04 - —
bbls., c.l., same basis.... 100 lbs. 6.08 - —
Syrup, 42°, bbls., c.l....100 lbs. 6.40 - —
l.c.l. .....100 lbs. 6.55 - —
Corrosive sublimate, USP, cryst., dms., 50 lbs. or more..lb. 1.93 - —
gran., powd., dms., 50 lbs. or more..lb. 1.78 - —
Cottonroot bark, bls.....lb. .40 - .45
Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd..unit-ton. No prices
Meal, 41% protein sacked, mills, southeast, c.l..ton.65.00 -66.00
Coumarin, cns., 25 lbs. or more. lb. 2.75 - 3.25
smaller lots.....lb. 2.90 - 3.30
Cramp bark, NF, bls.....lb. .75 - .80
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs., one ship't..lb. .41½- —
smaller lots, bbls., kgs. lb. .42 - .42½
Creosote carbonate, bots., cbys. lb. 2.30 - 2.40
Coaltar (see Cresol).
Oil, coaltar, crude, tanks, works. gal. .17½- —
refined, dms., c.l., works. gal. .30 - .34½
l.c.l., same basis....gal. .33 - .35
tanks, same basis....gal. .21 - .23
solution, 30-20, tanks, works. gal. .16 - —
Wood beech, bots., cbys...lb. 1.05 - 1.10
Hardwood, NF, bots., cbys.lb. .80 - .85
Pine, dms.....gal. .31 - .32
Cresol, special resin grades, dms., c.l., works, frt. equald. lb. .12¼- .13½
l.c.l. same basis.....lb. .13 - .13¾
tanks, same basis.....lb. .11¾- .12¼
USP, dms., c.l., same basis..lb. .13¾- —
l.c.l., same basis.....lb. .14¼- —
tanks, same basis.....lb. .13 - —
Crotonaldenyde, 91-93%, 55 and 110 gal. dms., l.c.l., works. lb. .17 - —
5 and 10-gal. dms., l.c.l., works..lb. .20½- —
Cryolite, nat., dealers, bgs., bbls., c.l., works..100 lbs. .12¾- —
bbls., l.c.l., works....100 lbs. .14 - —
synth., bgs., bbls., c.l., frt. alld. E. of Miss. R..lb. — - —
l.c.l., works.....lb. — - —
Cube root, 5% rotenone works..lb. .60 - .65
4% rotenone, bbls., works..lb. .48 - .52
Cubeb berries, XX, bgs.....lb. .75 - .80
powd., cs. .....lb. 1.00 - 1.05
Culvers root, bls.....lb. .38 - .39
Cumin seed, Cyprus, bgs.....lb. No stocks
Indian, bgs., futures.....lb. .40 - .41
Morocco, bgs.....lb. No stocks
Persian, bgs.....lb. .25½- .26
Syrian, bgs.....lb. .25½- .26
Cutch, 65% tannin, bgs., ex dock. lb. .12 - —
Cyanamide, fertilizer mixing grades, guaranteed 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk. unit-ton. 1.85 - —
21% N., pulv., bgs., same basis..unit-ton. 1.75 - —
Cyclohexane, tech., dms., c.l., works..lb. .09½- —
l.c.l., works.....lb. .10 - —
tanks, works.....lb. .08 - —
Cyclohexanol, dms., c.l., works. lb. .21½- .26
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Cyclohexanone, tech., dms.....lb. .26½- .30
l.c.l., works .....lb. .27 - .31
tanks, works .....lb. .25 - .29
Cyclopropane, USP, cyls., dlvd.. gal. .27 - —

D

Damiana leaves, bls.....lb. .35 - .40
Dandelion root, bls.....lb. .70 - .75
DDT, fiber, dms., c.l., works.lb. .42½- —
ton lots, works.....lb. .45 - —
tins, smaller lots, works....lb. .48 - .50
Decanol, normal, tech., dms., dlvd..lb. .35 - —
Deertongue, bls.....lb. .35 - .40
Defluorinated phosphate, 65% b.p.l., paper bag., Columbus, Ga..ton.39.25 - —
Texarkana, Ark.....ton.41.00 - —
Tupelo, Wis.....ton.39.25 - —
Wales, Tenn.....ton.39.25 - —
phosphate rock, paper bgs., works..ton.34.25 - —
Degras, common, bbls.....lb. .10 - .12
neutral, less 2% ffa, bbls...lb. .22 - .23
over 2% ffa, bbls.....lb. .21 - .22
Derris root (see Cube root).
Dextrin, British gum, bgs., c.l. 100 lbs. 7.25 - —
l.c.l. .....100 lbs. 7.40 - —
Chicago, bgs., c.l....100 lbs. 6.80 - —
Corn, canary, bgs., c.l..100 lbs. 6.99 - —
l.c.l. .....100 lbs. 7.14 - —
Chicago, bgs., c.l..100 lbs. 6.54 - —
dark, bgs., c.l.....100 lbs. 7.09 - —
l.c.l. .....100 lbs. 7.24 - —
Chicago, bgs., c.l...100 lbs. 6.64 - —
white, bgs., c.l.....100 lbs. 6.84 - —
l.c.l. .....100 lbs. 6.99 - —
Chicago, bgs., c.l..100 lbs. 6.39 - —
Above prices are for dextrin in paper bgs.; cotton bgs., 30c. higher.
Potato, dom., bgs.....lb. .13 - .13¼
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grades, bots..lb. 5.20 - 6.00
laboratory grade, bots..... 100 grams. 4.80 - —
tech., bots., works.....lb. 3.00 - —



MONTROSE Chemical Company
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N.Y.
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U.S.I. CHEMICAL NEWS

June ★ A Monthly Series for Chemists and Executives of the Solvents and Chemical Consuming Industries ★ 1947

New Data Uncovered On Use of Butanol In Organic Syntheses

Research in Russia, India, U.S.A. May Herald New Applications

Laboratory research by Russian, Indian, and American scientists discloses new information concerning the use of butanol in organic syntheses, according to a number of papers published within the last three years. These discoveries may open new fields of application for this versatile solvent, which is now being used widely in the protective coatings and other important industries.

New Syntheses

Most recent of the new synthetic uses of butanol involves its conversion to butyric acid. In this method, which is described in an American patent, excess quantities of butyraldehyde are mixed with butanol and a cobalt acetate catalyst in a specially-constructed apparatus. The mixture is then treated with a gaseous oxidizing agent.

Russian scientists revealed recently that butanol when treated with aluminum and iodine under specific conditions will produce an exceptionally high yield of butyl iodide. The reaction is said to be spontaneous and to generate a considerable amount of heat. Another Russian report claims that butyl chloride and some secondary-butyl chloride are obtainable from reacting butanol with ferric chloride.

Although the reaction between hydrochloric acid and butanol has been known for some time, Indian chemists have purportedly discovered a method for increasing the reaction rate. This is claimed to be accomplished by adding benzene to the reaction mixture. The effect is said to be due to the greater solubility of the hydrochloric acid in the butanol as compared to the benzene.

Standard Applications

Butanol, a medium boiling alcohol, owes its industrial importance in the solvent field to its relatively low evaporation rate, and strong solvent powers for a wide variety of organic materials. Its most important application here is as a latent solvent for nitrocellulose to make airplane dopes, artificial leather, patent and enameled leather, coated paper finishes, nonshatterable glass fillers, printing inks, and photographic film. Butanol is also used as a solvent for a variety of resins.

In general, this compound is an excellent

(*Continued on page 2, column 2*)

Protein Synthesis Observed Outside Body for First Time

The synthesis of proteins has been observed for the first time outside of the animal body through the application of radioactive tracers, according to a report published recently by two American scientists. These biochemists placed slices of animal liver in a solution containing radioactive methionine. Although the total protein content of the tissue decreased, the liver was shown to be still actively synthesizing new protein by the incorporation of methionine containing radioactive sulfur by the formation of peptide linkages. The research may lead to methods of coming to direct grips with protein synthesis *in vitro*, the authors state.

Present Exterior Paints Better Than Pre-War, Says E. T. Trigg

President of National Paint, Varnish, and Lacquer Association States Few Items Now Give More Dollar Value Than Paints

WASHINGTON, June 2. — In an interview today, Ernest T. Trigg, President of the National Paint, Varnish, and Lacquer Association stated that in his opinion there are few if any commodities for which the consumer is now getting more dollar value than in his paint purchases. "As far as exterior paints are concerned," he went on, "there are many who have the conviction that the war-time paints are equal or superior to pre-war types, and this conviction is so deep-seated that they do not expect ever to revert to their old formulas."

Pointing out that the protective coatings industry was forced to meet skyrocketing wartime production demands in the face of critical shortages, he asserted that there was nevertheless no real sacrifice in quality. "During the war," he said, "members of the paint, varnish and lacquer industry were called upon to furnish protective coatings for the army and navy in prodigious quantities. Ships, tanks, planes, guns — every piece of ammunition down to the smallest shell — all required the products of our industry to keep them in fighting trim and ready to go into action at the proper time. We also had to meet the paint requirements of the camps and training stations where millions of our young men were housed while preparing for overseas duty, of the huge new plants constructed to provide the sinews of war, and of the housing which was needed for the workers in these war plants.

"Our industry met every military requirement and all essential civilian requirements," he continued, "despite the shortages of many critical materials. Although some of the modern fast drying paints could not be made because certain critical materials were going into military uses, comparable results were obtained with slower-drying finishes. There

(*Continued on page 2, column 1*)

"I have little hesitation in stating that all during the war and right up to the present, there have been few, if any, commodities for which the consumer has received more value for his dollar than paint."—E. T. Trigg

THE MONTH IN COATINGS

A substitute for casein **in paints is reported to be alginic acid, a marine plant derivative . . .** ***A survey of methods*** **for testing coating resins, which is said to avoid duplication of the work of other groups and to be wide in scope, is published . . .** ***To cut can damage*** **and save floor space, a new device is marketed for stocking, storing, transporting, and displaying round cans . . .** ***A photosensitive lacquer,*** **which is said to be tough enough to require no hand-applied reinforcement and to increase fineness of detail and accuracy of production, is announced . . .** ***A dual-service "wash-primer,"*** **is described as a vinyl resin base material which serves as a metal surface conditioning agent and a priming coat . . .** ***A "can mobilometer"*** **is on the market for measuring the viscosity of materials in their original containers . . .**

U.S.I. Reduces Prices Of Synthetic Resins

Despite the fact that resin availability is lagging well behind demands, U. S. Industrial Chemicals has announced a reduction of approximately 10 per cent in its prices on practically all types. The price reduction is the second general cut U.S.I. has made on synthetic resins since prices were decontrolled. The reductions have been made possible by lowered costs and improved production methods.

Synthetic resins manufactured by U.S.I. are used in the production of protective coatings, such as paints, varnishes, lacquers, enamels, as well as many specialty products. These resins are manufactured in U.S.I. plants at Newark, Baltimore, and Pensacola.

Booklet on Shipping Chemicals Now Available

A 32-page pamphlet on tank car classifications for ladings, listing the chemicals usually shipped by tank cars, and the class of cars permitted by the Interstate Commerce Commission, is now available. The AAR classification of cars and ICC rules for shipping are included.

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June ★ **U.S.I. CHEMICAL NEWS** ★ 1947

Present-Day Paints

(Continued from page 1, column 3)

was never any real sacrifice in quality," he reiterated.

Only One Fundamental Change

According to Mr. Trigg, the only fundamental change that was made in paint formulation during the war was occasioned by the War Production Board Conservation Order M-332 which limited the quantities of oil used in several types of paint. This order was put into effect in accordance with the recommendations of a committee of outstanding paint technologists based upon their own knowledge and experience, and was in keeping with a trend which had already begun.

"For example," Mr. Trigg said, "before the war, exterior house paints contained about 5 pounds of raw linseed oil. The WPB order limited them to 3.75 pounds of oil. But the oil which was used was a bodied oil to which 1.25 pounds of thinner could be added to give a vehicle comparable to raw linseed oil in its properties."

How do these new exterior paints compare with the pre-war type?

"We determined that," Mr. Trigg said. "Soon after the order became effective, the Scientific Section of the National Paint, Varnish, and Lacquer Association placed panels coated with a number of 'conservation' paints on our exterior test fence. We exposed them in direct comparison with the first-line paints made by the same manufacturers in 1940. Today, after more than three years of exposure, the 'conservation' paints appear to be equal in integrity to the old-type paints. They are cleaner and give a better appearance because of their self-washing qualities."

Sees Bright Future

"The lessons of the war have been absorbed and are being reflected in improved paints for architectural surfaces and in specialized finishes as well," Mr. Trigg declared. "Research programs are being carried on continuously in the laboratories of paint manufacturers and their raw material suppliers—and while these hold promise for the future, there should be no hesitation upon the part of the consumer in accepting the products of reputable manufacturers today."

Reports "Tongue Prints" Simplify Disease Diagnosis

A simple and accurate method for taking "tongue prints" will aid in the treatment of many diseases, according to a paper published recently in an American medical journal. The tongue print, which is said to be as individual as a fingerprint, is reported to alter in measurable fashion during disease, providing an accurate means of diagnosis. Basis of the new method is a special ink described as containing Evan's blue, gum acacia, and chlorobutanol, a derivative of acetone. The print is obtained by applying the inking solution, then pressing cardboard-backed paper against the tongue in a prescribed manner.

Geiger Counter Made Into Sensitive Fire Alarm

A redesigned Geiger counter, a device formerly used to detect dangerous X-rays or those present in atomic material, can now report the presence of flames, according to a recent announcement. The device is said to be so sensitive that it can spot a match flame yards away, or sound an alarm at the sparks from the wheel of a cigarette lighter. The instrument is only 1⅝" in diameter and 6¼" long, with an electrically charged tungsten wire running through the center and a quartz window at one end. When ultra-violet rays from a flame pass through the eye, an electric charge is released.

New Butanol Data

(Continued from page 1, column 1)

blending agent for holding immiscible liquids together in a homogeneous solution, or for preventing the precipitation of otherwise incompatible solids. Miscellaneous solvent uses are for brake fluids, hydraulic shock absorber fluids, insect sprays, penetrating oils, polishes, and metal cleaners. It is also a detergent, a dehydrating agent, a surface tension depressant, and an anti-foaming agent.

More Riboflavin Needed in Poultry Feeds

Recent experiments indicate that present riboflavin recommendations for poultry are inadequate. This was especially true in rations designed for high hatchability and weight maintenance during high egg production. Addition of riboflavin to rations previously thought adequate produced chicks with greater livability and growth potential.

TECHNICAL DEVELOPMENTS

Further information on these items may be obtained by writing to U.S.I.

To prevent wood decay, a new primer, or sealer, has been placed on the market, which is said to combat mildew and rot in hot, wet climates. **(No. 202)**

USI

A new hand-operated emulsifier is claimed to disperse small quantities of immiscible liquids into a homogeneous emulsion by means of a few vigorous strokes. **(No. 203)**

USI

To stabilize plastics against light, a new product has been developed which is alleged to be effective in quantities as low as three per cent. **(No. 204)**

USI

A new dip-coating plastic, is said to provide adequate protection for all types of equipment with a single dip. The coating is claimed to resist acids, alkalies, oxidizing agents, and some solvents. **(No. 205)**

USI

To improve the fastness of dyes, a new after-treating compound is offered. **(No. 206)**

USI

A substitute for red lead or zinc chromate in conventional paint primers is described as a muscovite mica containing graphite. **(No. 207)**

USI

Two new adhesives have been placed on the market. One is described as a cold-setting thermoplastic, synthetic waterproof adhesive with high resistance to oxidation. The other, a liquid, is claimed to adhere to any material and develop strong tack immediately. **(No. 208)**

USI

To remove silica from boiler feed water new equipment, which applies the principles of demineralizing, has been developed. **(No. 209)**

USI

To bond vinyl to vinyl sheets or other stocks coated with these materials is now possible by means of a new adhesive, the manufacturer states. **(No. 210)**

USI

To resist summer heat rays, a new roof paint is being offered which is said to cut interior temperatures as much as 15 degrees by deflecting 70 per cent of the sun's heat rays. **(No. 211)**

USI

To stabilize rayons permanently is the purpose of a new process which is alleged to cut rayon shrinkage down to the range of 0 to 1 per cent. **(No. 212)**

USI

A new corrosion-proofing material has self-sealing properties and can be patched over areas from which it has been removed, according to the manufacturer. **(No. 213)**

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ALCOHOLS
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Specially Denatured—all regular and anhydrous formulas
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*Solox proprietary Solvent

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Ethyl Acetate

OXALIC ESTERS
Dibutyl Oxalate
Diethyl Oxalate

PHTHALIC ESTERS
Diamyl Phthalate
Dibutyl Phthalate
Diethyl Phthalate

OTHER ESTERS
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Diethyl Carbonate
Ethyl Chloroformate
Ethyl Formate

INTERMEDIATES
Acetoacetanilide
Acetoacet-ortho-anisidide
Acetoacet-ortho-chloranilide
Acetoacet-ortho-toluidide
Acetoacet-para-chloranilide
Alpha-acetylbutyrolactone
5-Chloro-2-pentanone
5-Diethylamino-2-pentanone
Ethyl Acetoacetate
Ethyl Benzoylacetate
Ethyl Alpha-Oxalpropionate
Ethyl Sodium Oxalacetate
Methyl Cyclopropyl Ketone

ETHERS
Ethyl Ether
Ethyl Ether Absolute—A.C.S.

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Riboflavin Concentrates
*Vacatone 40
*Curbay B-G *Curbay Special Liquid

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Ester Gums—all types
Congo Gums—raw, fused & esterified
*Aroplaz—alkyds and allied materials
*Arofene—pure phenolics
*Arochem—modified types
Natural Resins—all standard grades

OTHER PRODUCTS
Collodions
Ethylene Glycol
Nitrocellulose Solutions
Ethylene
Urethan
dl-Methionine

Printed in U.S.A.

Diamyl ether (see Amyl ether).
Phthalate, dms., tanks.....lb. No prices
Diamylamine, dms., c.l., works,
lb. 1.47 - —
l.c.l., works.....lb. 1.50 - —
Dianisidine, dms.....lb. 1.35 - —
Diatomaceous earth, dom., C.P, bgs., c.l., Atlantic Coast.lb. .07 - —
l.c.l., ex whse.....lb. .10 - .16
nat., bgs., c.l., Pacific coast.
ton.22.00 -25.00
l.c.l., ex whse.....ton.45.00 - —
purified, bgs., c.l., Atlantic coast..ton.55.00 -59.00
l.c.l., ex whse.....ton.85.00 -90.00
Algerian, bgs., c.l., Atlantic coast..ton. No prices
Mexican, white, bgs., c.l., Atlantic coast..lb. .03 - —
l.c.l.....lb. .06 - —
Dibutyl phthalate, dms., c.l., same basis..lb. .30½- .35½
l.c.l., same basis.....lb. .31 - .34½
tanks, same basis.....lb. .29 - .32
Sebacate, dms., c.l., works..lb. No prices
l.c.l., works.....lb. No prices
tanks, works.....lb. No prices
Tartrate, dms., wks., frt.alld.
lb. .92 - 1.02
Dibutylamine, dms., c.l., works,
lb. .76 - —
l.c.l. works.....lb. .79 - —
Dichlorodiphenyltrichloroethane (see DDT).
Dichlorodiphenyldichloroethane,
fib. dms., c.l., works..lb. .42½- —
ton lots, works.....lb. .45 - —
tins, small lots, works.....lb. .48 - .50
Dichloroethyl ether, purified, dms., c.l., works, frt. squald with So. Charleston..lb. .13½- —
l.c.l., same basis.....lb. .14 - —
tanks, same basis.....lb. .12½- —
Diethanolamine, dms., c.l., frt. alld in E..lb. .23½- —
l.c.l., same basis.....lb. .24½- —
tanks, same basis.....lb. .22½- —
Diethyl carbonate, dms., l.c.l..lb. .40 - —
Oxalate, dms., c.l.....lb. .35½- —
l.c.l.....lb. .36½- —
tanks.....lb. .34 - —
Phthalate, dms., c.l., divd..lb. .29¼- —
dms., l.c.l., divd.....lb. .30 - —
tanks, divd.....lb. .28 - —
Sulphate, dms., c.l., works..lb. .14 - —
l.c.l., works.....lb. .15 - —
tanks, works.....lb. .13 - —
Diethylamine, dms., c.l., works,
lb. .69 - —
l.c.l., works.....lb. .71 - —
tanks, works.....lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss. R..lb. .75 - —
Diethylanilin, dms......lb. .48 - —
Diethyleneglycol, dms., c.l. frt. alld. in E...lb. .14 - —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —
Monobutylether, dms., c.l., wks.
lb. .22 - —
l.c.l., works.....lb. .23 - —
tanks, works.....lb. .21 - —
Monoethylether, dms., c.l., wks.
lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Diethylstilbestrol, bots.....kilo.270.00 -280.00
Digitalin, cryst., bots.....gram.29.00 -30.00
powd., bots.....gram. 1.25 - 1.75
Digitalis leaves, dms.....lb. 1.05 - 1.15
Digiycol laurate, dms.....lb. .31 - .32
Oleate, light, bbls., c.l.....lb. .17 - —
Stearate, bbls., c.l.....lb. .23 - —
Dihydroxydichlorodiphenylmethane,
dms..lb. .95 - 1.00
smaller containers, same basis,
lb. 1.05 - 1.40
Di-isobutyl ketone, dms., works.
lb. .19 - —
Di-isobutylene, dms., c.l., works.
lb. .07 - —
l.c.l., works.....lb. .07½- —
tanks, works.....lb. .05½- —
Dillseed, decorticated, bgs.....lb. .11 - .11½
dewhiskered, bgs.....lb. .10 - .10¼
Dimethyl phthalate, dms., c.l., divd..lb. .22¼- —
l.c.l., divd.....lb. .23 - —
tanks, divd.....lb. .21 - —
Dimethylamine, anhyd., cyl., frt. alld. E. of Miss., 100% basis.
lb. .40 - —
solution, dms., works, frt. alld. E. of Miss., 100% basis..lb. .37 - .47½
tanks, same basis.....lb. .36 - —
Dimethylanilin, dms., c.l.....lb. .21 - .24½
l.c.l.....lb. .22 - —
Dinitrobenzene, bbls......lb. .16 - —
Dinitrochlorobenzene, dms.....lb. .14 - .15½
Dinitronaphthalene, kgs......lb. .35 - .38
Dinitrophenol, bbls......lb. .22 - —
Dinitrotoluene, rfd., dms.....lb. .18 - —
oily, dms.....lb. .07 - .07¾
Diorthotolylguanidin, dms., ten lots, divd..lb. .44 - —
smaller lots, divd.....lb. .46 - .47
Dioxan, dms., c.l., frt. alld....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, destructive dist., dms., extra, wks., South, c.l.,
gal. .66 - —
tanks, wks., South.....gal. .60 - —
steam-dist., dms......gal. .80 - —
tanks, divd. E.....gal. .77 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works.....lb. .16 - .20
Oxide, perfume grade, cns...lb. .50 - .61
dms......lb. .45 - .56
Diphenylamine, bbls......lb. .26 - —
Diphenylguanidin, dms., tens..lb. .36 - —
smaller lots.....lb. .34 - .37
Divi-divi, 35% tannin, c.l., U.S. ports, ex dock..ton.58.00 -60.00
Doggrass root, dom., cut, bls.lb. .27 - .28
imp., N.F., cut, bls......lb. .41 - .42
Dogwood, Jamaica, bark, bls...lb. .12 - .14
Dover's powder, USP, cns....lb. No stocks.
Dragon's blood, drops, cs.....lb. .45 - .47
reeds, cs.....lb. No stocks.
Dyes, coaltar (certified colors for foods, drugs and cosmetics), 5-lb. lots):—
Blue, FD&C, No. 1, cns....lb.13.00 - —
Green, FD&C, No. 1, cns...lb.13.00 - —
No. 2, cns.....lb.17.00 - —
No. 3, cns.....lb.27.00 - —
Orange, FD&C, No. 1, cns..lb. 2.80 - —
No. 2, cns.....lb. 3.55 - —
Red, FD&C, No. 1, cns....lb. 5.75 - —
No. 2, cns.....lb. 3.05 - —
No. 3, cns.....lb.17.00 - —
No. 4, cns.....lb. 5.50 - —
No. 32, cns.....lb. 4.05 - —
Yellow, FD&C, No. 1, cns..lb. 3.00 - —
No. 3, cns.....lb. 2.55 - —
No. 4, cns.....lb. 2.35 - —
No. 5, cns.....lb. 3.05 - —
No. 6, cns.....lb. 3.05 - —
Dyes, coaltar (certified colors for drugs and cosmetics), 1-lb. lots:—
Black, D&C, No. 1, cns.....lb. 8.35 - —
Blue, D&C, No. 4, cns.....lb.12.35 - —
Brown, D&C, No. 1, cns....lb.12.35 - —
Green, D&C, No. 5, cns.....lb.12.35 - —
No. 6, cns.....lb.12.35 - —
Orange, D&C, No. 5, cns....lb. 8.35 - —
No. 4, cns.....lb.15.35 - —
No. 10, cns.....lb.15.35 - —
Red, D&C, No. 6, cns.....lb. 2.85 - —
No. 17, cns.....lb. 6.35 - —
No. 18, cns.....lb.15.35 - —

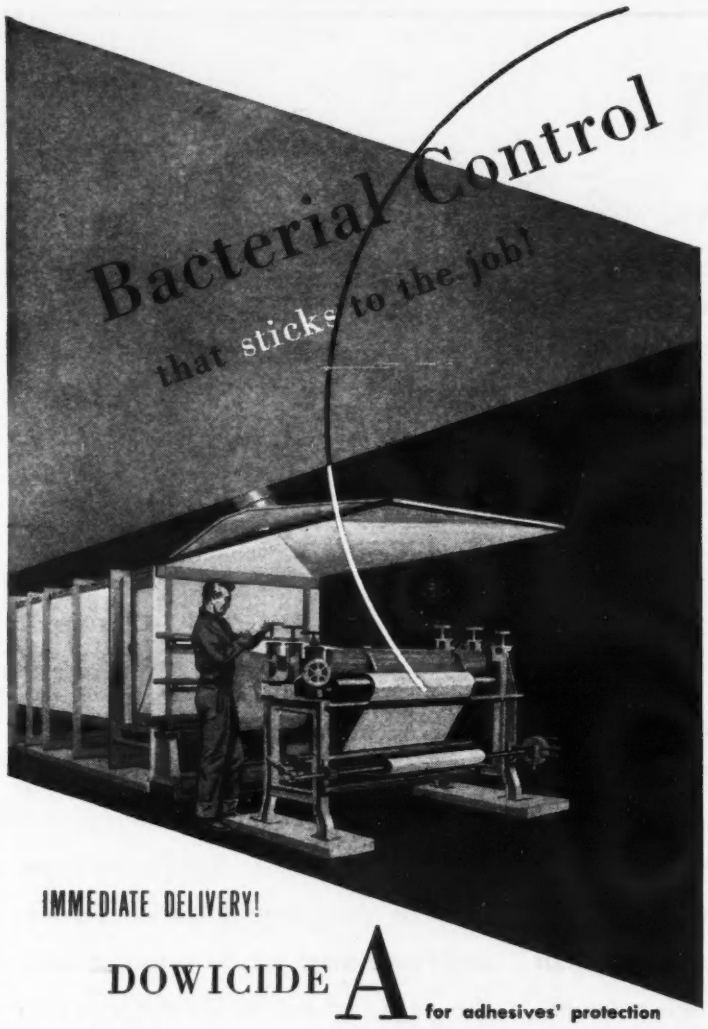
Dyes, coaltar (certified colors for drugs and cosmetics), 1-lb. lots:—
Yellow, D&C, No. 7, cns....lb. 8.35 - —
8, cns.....lb. 8.35 - —
No. 11, cns.....lb.10.35 - —
No. 19, cns.....lb.15.35 - —
No. 22, cns.....lb. 8.35 - —
No. 33, cns.....lb.12.35 - —
No. 37, cns.....lb.12.35 - —
Dyes, coaltar (certified colors for external use drugs and cosmetics), 1-lb. lots—
Blue, Ext. D&C, No. 1, cns..lb.12.35 - —
Green, Ext., D&C, No. 1, cns.
lb.12.35 - —
Red, Ext., D&C, No. 1, cns..lb.10.35 - —
No. 3, cns.....lb.21.35 - —
No. 5, cns.....lb. 7.65 - —
No. 10, cns.....lb.12.35 - —
No. 13, cns.....lb.12.35 - —
Yellow, Ext., D&C, No. 1, cns.
lb. 8.35 - —

Dyes, coaltar, for general uses (numbers are those of the Colour Index scale).
40 Chrome yellow R....lb. .72 - —
53 Victoria violet.....lb. 1.25 - —
165 Lake red C.....lb. .94 - —
170 Fast red A.....lb. .66 - —
180 Fast red VR.....lb. .68 - —
202 Chrome blue black U.lb. .42½- —
204 Chrome black A....lb. .47 - —
208 Fast red glue.....lb. .66 - —
216 Chrome red B.....lb. .57 - —
280 Fast cyanin 5R.....lb. .90 - 1.00

Dyes, coaltar, for general uses (numbers are those of the Colour Index scale).
2.80 Chrome black F.....lb. .94 - —
3.84 Paper yellow.....lb. 1.06 - —
307 Fast cyanin black B.lb. .77 - —
32 Direct fast scarlet...lb. 2.03 - —
365 Chyrophenin G.....lb. 1.59 - —
382 Direct scarlet B.....lb. 1.16 - —
387 Direct violet B.....lb. 1.41 - —
394 Direct violet N.....lb. 1.65 - —
401 Developed black BHN, lb. .39 - —
406 Direct blue 2B.....lb. 1.10 - —
415 Direct orange B.....lb. .60 - —
419 Direct fast red F....lb. .97 - —
420 Direct brown M.....lb. .76 - —
448 Benzo purpurin 4B...lb. .72 - —
495 Benzo purpurin 10B..lb. 1.32 - —
502 Direct azorin G.....lb. 1.05 - —
512 Direct blue RD.....lb. 1.65 - —
518 Direct pure blue 6B..lb. 2.07 - —
520 Direct pure blue.....lb. 1.32 - —
539 Direct fast black FF.lb. 1.10 - —
581 Direct black EW....lb. .55 - —
582 Direct black RX....lb. .66 - —
593 Direct green B.....lb. .66 - —
594 Direct green G.....lb. .70 - —
596 Direct brown 3GO...lb. .69 - —
620 Direct yellow R.....lb. .73 - —
698 Acid violet.....lb. .93 - —
812 Primulin .....lb. .77 - —
814 Direct fast yellow...lb. .97 - —
865 Nigrosin (water soluble), lb. .38 - —

Dyes, coaltar, for general uses (numbers are those of the Colour Index scale).
1177 indigo, 20%, paste...lb. .20½- —
Benzo fast black L.lb. 1.49 - —
Sulphur black.....lb. .29 - —
Sulphur blue.....lb. 1.06 - —
Zambesi black.....lb. 1.06 - —

Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).
Black—
865 Nigrosin derivatives..lb. .38 - —
Blue—
1075 Alizarin astral base..lb. 2.48 - —
1073 Alizarin, Irisol R....lb. 3.96 - —
Brown—
Brown, oil soluble.....lb. 1.38 - —
Green—
1078 Alizarin cyanin green base..lb. 2.20 - —
Orange—
24 Sudan I.....lb. .61 - —
Red—
258 Sudan IV.....lb. 1.10 - —
480 Oil, violet.....lb. .88 - —
749 Rhodamine B (oil pink). lb. 5.23 - —
1080 Anthraquinone, violet base..lb. 5.50 - —
Yellow—
15 Amidoazobenzene yellow. lb. .90 - —
17 Amidoazotoluene yellow. lb. .77 - —
61 Yellow, OB.....lb. 1.40 - 2.00



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In adhesives—in *any* industry that suffers from the constant working of microorganisms, you can gain effective control—and save money—by using Dowicides.

Consider how the adhesives industry benefits from Dowicide A. Adhesives use natural gums, dextrin, gelatins, corn and wheat starches, animal glues and casein—an interesting diet for bacteria!

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CHEMICAL COMMENTS

Methocel Licks Important Problems in the Leather Industry

Coating the grain surface of chrome- and vegetable-tanned leathers with Methocel before they are pasted on frames for drying reduces shrinkage. The use of Methocel also gives added smoothness in grain, and results in a gain in surface area. Using either the 1500 or 4000 cps. types, thick pastes can be produced with a minimum amount of Methocel, making possible added economy, and easier removal from the hide since penetration is reduced. Addition of small amounts of glucose further assists in the removal of the Methocel from the dried leather.

Perchloroethylene Vapor-Cleans Metal Parts

Vapor degreasing with Perchloroethylene is an economical method of cleaning metal parts before assembly or in preparation for other operations. The parts to be cleaned are suspended above a bath of Perchloroethylene allowing the vapor to condense on the cold metal to dissolve grease and flush away lint and chips. Perchloroethylene is nonflammable, stable and has high solvency for oils, waxes and a majority of the die lubricants used in casting and stamping. It is also used in liquid phase operations and is especially adapted to cleaning metal preparatory to plating. Degreasing surfaces with this solvent prevents blistering and peeling of platings.

Jacketed Kettles that Cook with Dowtherm

Multipurpose kettles constructed for the laboratory or semiplant use Dowtherm, a heat transfer medium developed by Dow. Such kettles are built with the jacket bottom enlarged to accommodate a small quantity of water, Dowtherm E or Dowtherm A. This pool of liquid can be heated with electric or gas heat to provide vapor for heating the kettle. The unit is operable at temperatures ranging from 200° F. to 700° F., with corresponding pressures not exceeding 125 lb. per sq. in.

DOW
CHEMICALS INDISPENSABLE TO INDUSTRY AND AGRICULTURE
50th Anniversary 1897-1947

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up 3c. per lb. higher, sellers' works or warehouse).

Black—
246 Naphthol blue black S.. lb. .53 - —
729 Victoria blue B.....lb. 2.53 - —
861 Indulin .....lb. .99 - —
873 Methylene gray.....lb. 1.50 - —
909 New blue P.....lb. 1.43 - —
922 Methylene blue.....lb. 1.49 - —
1054 Alizarin saphirol B..lb. 1.98 - —
1130 Indigotin IA.....lb. .94 - —

Blue—
714 Patent blue A.....lb. 2.48 - —

Brown—
331 Bismarck brown G...lb. .83 - —
234 Resorcin brown Y....lb. .99 - —
235 Resorcin dark brown R. lb. .65 - —
332 Bismarck brown R...lb. .53 - —
793 Phosphin .....lb. 1.83 - —

Green—
5 Naphthol green B....lb. 1.07 - —
657 Malachite green.....lb. 1.43 - —
662 Brilliant green.....lb. 2.09 - —
666 Guinea green B.....lb. 2.14 - —
737 Wool green S.....lb. 1.62 - —
924 Methylene green B...lb. 1.55 - —
1078 Alizarin cryanin green.. lb. 2.20 - —

Orange—
20 Chrysodin G.....lb. .42 - —
21 Chrysodin R.....lb. .39 - —
27 Orange G.....lb. .53 - —
31 Amidonaphthol red G.lb. .66 - —
57 Amidonaphthol red 6B. lb. .90 - —
151 Orange Y.....lb. .31 - —
161 Orange R.....lb. .33 - —

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up 3c. per lb. higher, sellers' works or warehouse).

Red—
79 Ponceau R.....lb. .51 - —
88 Fast red B.....lb. .53 - —
176 Fast red A.....lb. .66 - —
179 Azorubin .....lb. .70 - —
183 Crocein scarlet 3BX..lb. .72 - .75
185 Cochineal red A.....lb. .69 - —
252 Brilliant crocein M...lb. .99 - —
677 Fuchsin .....lb. 2.31 - —
749 Rhodamine B.....lb. 5.23 - —
752 Rhodamine 6B.....lb. 4.95 - —
768 Eosin G.....lb. 1.50 - —
841 Safranin .....lb. 1.97 - —

Violet—
680 Methyl violet B.....lb. .88 - —
681 Crystal violet B....lb. 1.91 - —
695 Acid violet 4BN.....lb. .93 - —

Yellow—
10 Naphthol yellow S....lb. .95 - —
138 Metanil yellow .....lb. .62 - —
636 Fast light yellow....lb. 1.59 - —
639 Xylene light yellow..lb. 1.32 - —
640 Tartarsin .....lb. .99 - —
655 Auramine .....lb. 2.20 - —

Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up 8c. per lb. higher, sellers' works or warehouse).

Black—
864 Nigrosin .....lb. .40 - —

Blue—
860 Indulin .....lb. .68 - .70

Brown—
331 Bismarck brown.....lb. .83 - —

Green—
657 Malachite, green base— lb. 1.43 - —

Orange—
20 Chrysoidin G .....lb. .42 - —

Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up 8c. per lb. higher, sellers' works or warehouse).

Red—
677 Fuchsin, magenta, base, lb. 2.31 - —
749 Rhodamine B.....lb. 5.23 - —

Yellow—
67 Amidoazotoluene yellow. lb. .77 - —
655 Auramine .....lb. 2.20 - —
800 Chinolin yellow SS...lb. 2.00 - —

Violet—
680 Methyl violet base...lb. .88 - —

Dyes, natural (see name of article).

E

Echinacea root, bls.....lb. .70 - .75
Egg, albumen (see Albumen).
Yolk, dried, dom., bbls.....lb. 1.18 - 1.23
imported .....lb. No stocks
Elder flowers, bright, bls.....lb. .73 - .74
Elecampane root, bls.....lb. .40 - .41
Elm bark, grinding, bls.....lb. .35 - .36
powd., bbls., bxs.....lb. .45 - .50
select, bndls.....lb. .55 - .56
Emetine hydrochloride, bots..oz.53.50 -54.00
Ephedra, bls.....lb. .20 - .21
Ephedrine, synthetic, USP anhydrous, bots, 100-oz. lots..oz. .84 - —
hydrous, bots., 100-oz. bots. oz. .76 - —
Hydrochloride, tin, 100 ozs..oz. .60 - —
Sulphate, cryst., tins, 100 ozs. oz. .57 - —
powd., tins, 100-oz. lots..oz. .58 - —
Epichlorohydrin, dms., c.l., works. lb. .46 - —
l.c.l., works .....lb. .46½- —
tanks, works .....lb. .44½- —
Epinephrine, synth., USP, bots.. gram. .70 - .95
Epsom salt, tech., cryst., bgs., c.l..100 lbs. 2.05 - —
l.c.l. .....100 lbs. 2.40 - 2.65
USP, cryst., bgs., c.l..100 lbs. 2.25 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.50 - —
smaller lots....100 lbs. 2.75 - —
bbls., c.l. .....100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.60 - —
smaller lots .....100 lbs. 2.85 - —
kgs., c.l. .....100 lbs. 2.60 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.85 - —
smaller lots .....100 lbs. 3.10 - —

Epsom salt prices freight equalized with Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland.

Ergot, USP, cns.....lb. 1.25 - 1.30
Eserine, bots. .....oz. No prices.
Sulphate, bots. .....oz.65.00 - —
Ether, acetic (see Ethyl acetate).
Amyl (see Amyl ether).
Butyl, l.c.l., dms., dlvd.....lb. .30 - —
Ethyl (see Ether, sulphuric).
Nitrous, cons., bots., 100-lbs.lb. .98 - 1.10
Sulphuric, cons., dms.....lb. .11 - .16
USP, anesthesia, hospital, 1-lb. cns..lb. .60 - .61
Synthetic, dms., c.l., frt. alld. lb. .18 - —
l.c.l., same basis.....lb. .19 - —
tanks, same basis.....lb. .16 - —
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld..lb. .20½- —
l.c.l., frt. alld.....lb. .21½- —
tanks, frt. alld.....lb. .19 - —
95-98%, dms., c.l., frt. alld. lb. .23 - —
l.c.l., frt. alld.....lb. .24 - —
tanks, frt. alld.....lb. .21½- —
99%, dms., c.l., frt. alld..lb. .21 - —
l.c.l., frt. alld.....lb. .22 - —
tanks, frt. alld.....lb. .19½- —
USP, dms. .....lb. .27 - —
synthetic, 85-90%, dms., c.l., frt.alld..lb. .10¼- —
l.c.l., frt. alld.....lb. .11 - —
tanks, frt. alld.....lb. .09½- —
95-98%, dms., c.l., frt. alld. lb. .11 - —
l.c.l., frt. alld.....lb. .11½- —
tanks, frt. alld.....lb. .10 - —
Acetoacetate, dms., c.l., works, lb. .50½- —
l.c.l., frt. alld.....lb. .51½- —
Benzoate, bots. .....lb. .50 - .52
B-ethoxy proprionate, dms., works..lb. .70 - —
Bromide, tech., 98%+, dms..lb. .38 - .40
Carbamate, dms., dlvd. E...lb. .58 - —
Chloride, tech., tanks.....lb. .13½- —
USP, bbls., cyl.....lb. .20 - .22
Cinnamate, cns.....lb. 2.35 - 3.25
Formate, dms., Agnue, Calif.lb. .26 .32
Iodide, bots .....lb. 3.50 - 3.60
Lactate, dms., works.....lb. .38½- —
Myristate, dms., works.....lb. No prices.
Oenanthate, dms.....lb. 2.60 - 3.25
Oleate, dms., l.c.l., works..lb. .47 - —
Oxalate, dms., frt. alld....lb. .33 - —
Silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., works..lb. .50 - —
Ethylcellulose, pkgs., 5,000 lbs., or more, works..lb. .57 - —
smaller lots, works.....lb. .59 - .67
Ethyldiethanolamine, dms., l.c.l., works..lb. .80 - —
Ethylene dichloride, dms., c.l., works, frt. alld. E. of Rockies..lb. .08 - —
West of Rockies.....lb. .08½- —
l.c.l., works, frt. alld. E. of Rockies..lb. .09 - —
West of Rockies.....lb. .09½- —
tanks, frt. alld. E. Rockies, lb. .07 - —
West of Rockies.....lb. .07½- —
Trichloride (see Trichloroethane).
Ethyleneglycol, dms., c.l., frt. alld. in E..lb. .12 - —
l.c.l., same basis.....lb. .13 - —
tanks, same basis.....lb. .11 - —
Monobutylether, dms., c.l., wks. lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16½- —
Monoethylether, dms., c.l., wks. lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Monoethylether, acetate, dms., c.l., works..lb. .13½- —
l.c.l., works.....lb. .14½- —
tanks, works.....lb. .12½- —
Monomethylether, dms., c.l., works..lb. .16½- —
l.c.l., works.....lb. .17½- —
tanks, works.....lb. .15½- —
Ethylethanolamine, dms., c.l., works..lb. .57 - —
l.c.l., works.....lb. .60 - —
Ethylmonoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots..oz.10.50 -10.75
Ethylvanillin, cns., 5 lbs. or more..lb. 6.75 - —
smaller lots.....lb. 6.80 - 6.90
Eucalyptol, cns., dms.....lb. 2.65 - 3.25
Eucalyptus leaves, bls.....lb. .14 - .15
Eugenol, prime, USP XII.....lb. 2.40 - 3.25
Euphorbia, bls. .....lb. .19 - .20

F

Feldspar, enamel, 100 mesh, bgs. ton.17.00 -20.50
bulk, c.l.....ton.14.00 -17.50
glass, 20 mesh, bgs., works, min. 2 tons..ton.12.75 -16.25
bulk, c.l.....ton. 9.75 -12.25
pottery, bgs., l.c.l., works, min. 2 tons..ton.20.00 -22.00
bulk, c.l., works.....ton.17.00 -19.00
Fennel seed, Argentine, bgs., futures..lb. .07 - .07½
Indian, bgs., afloat.....lb. .18 - .18½
Fenugreek, domestic, bgs.....lb. No stocks
Indian, bgs.....lb. .09 - .09½
Morocco, bgs.....lb. .11½ Nom.
futures, bgs.....lb. .10½- .11
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works.lb. .13½- .15
water-white, cs., works.....lb. .14½- .17
Fir balsam, Canada, cns.....gal.23.50 -24.00
Oregon, bbls. .....gal. 2.45 - 2.55
Fishberries, bgs.....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, grd., 60% protein, bgs., E. works..ton.130.00 - —
65% protein, bgs., E. works. ton.130.00 - —
Fishscrap, dried, 60% protein, bulk, East coast..ton.110.00 -120.00
Flake white, bbls.....lb. .09 - —
kegs .....lb. .11 - —

SPECIFICATION:

Drums to be equipped with VISEGRIP closures

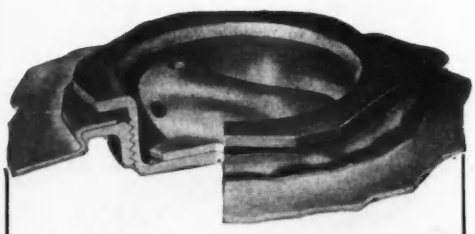
SEVEN WORDS *in an order for steel drums will start those drums toward long and efficient service.*

SEVEN WORDS: "Drums—to—be—equipped—with—VISEGRIP—Closures."

IT'S THAT SIMPLE to get the advantages of the leakproof, *all-steel* VISEGRIP Closures — and they will be the strongest parts of those drums.

Drums that are equipped with VISEGRIP Closures give more than ordinary protection to their valuable liquid loads. They have the tremendous margins of safety that are required for ultimate safe delivery to the most distant point.

There is no room for closures that do not *assure* safe, leakproof deliveries of their liquid loads. Accordingly, we urge you to consider fully the value of the positive protection in VISEGRIP Closures when you order your next drums.



The VISEGRIP Closure is the *all-steel* closure. It seals the drum by locking the drum metal tightly *in a vise*. . . . The drum becomes part of the VISEGRIP Closure and has a single, superior seal.

Drums with VISEGRIP Closures are sealed and safe . . .

Specify VISEGRIP:

"Drums to be equipped with ViseGrip Closures."

Every drum manufacturer in the United States has a stock of VISEGRIP Closures and is equipped to build them into your drums with Rieke dies.

VISEGRIP CLOSURES

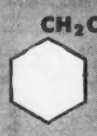
developed and produced for more than 20 years by

RIEKE METAL PRODUCTS CORPORATION
AUBURN, INDIANA NEW YORK, N. Y.

HEYDEN chemicals serve the nation's industries

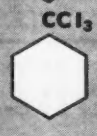
CHLORINATED AROMATICS

Valuable as solvents and as intermediates in the manufacture of pharmaceuticals, dyes, fungicides, and other organic chemicals.



BENZYL CHLORIDE
Technical and refined grades — in 100-lb. carboys.

BENZOYL CHLORIDE
Information upon request.



BENZOTRICHLORIDE
Information upon request.

Chlorinated Benzaldehydes	**Ortho Chlor Benzaldehyde** Assay: 98.0% Containers: Glass carboys	**Para Chlor Benzaldehyde** Assay: 98.0% Containers: Fiber drums	**2,4-Dichlor Benzaldehyde** Assay: 97.0% Containers: Fiber drums	**3,4-Dichlor Benzaldehyde** Assay: 96.0% Containers: Fiber drums
Chlorinated Benzyl Chlorides	**Ortho Chlor Benzyl Chloride** Assay: 98.0% Containers: Glass carboys	**Para Chlor Benzyl Chloride** Assay: 97.0% Containers: Glass carboys	**2,4-Dichlor Benzyl Chloride** Assay: 97.0% Containers: Glass carboys	**3,4-Dichlor Benzyl Chloride** Assay: 96.0% Containers: Glass carboys
Chlorinated Benzoyl Chlorides	**Ortho Chlor Benzoyl Chloride** Assay: 95.0% Containers: Glass carboys	**Para Chlor Benzoyl Chloride** Assay: 98.0% Containers: Glass carboys	**2,4-Dichlor Benzoyl Chloride** Assay: 98.0% Containers: Glass carboys	**3,4-Dichlor Benzoyl Chloride** Assay: 95.0% Containers: Glass carboys
Chlorinated Benzotrichlorides	**Ortho Chlor Benzotrichloride** Assay: 98.0% Containers: Glass carboys	**Para Chlor Benzotrichloride** Assay: 98.0% Containers: Glass carboys	**2,4-Dichlor Benzotrichloride** Assay: 98.0% Containers: Fiber drums	**3,4-Dichlor Benzotrichloride** Assay: 96.0% Containers: Glass carboys
Chlorinated Toluenes	**Ortho Chlor Toluene** Assay: 99.0% Containers: Glass carboys or iron drums	**Para Chlor Toluene** Assay: 97.0% Containers: Glass carboys or iron drums	**2,4-Dichlor Toluene** Assay: 99.0% Containers: Glass carboys or iron drums	**3,4-Dichlor Toluene** Assay: 97.0% Containers: Glass carboys or iron drums
Chlorinated Benzoic Acids	**Ortho Chlor Benzoic Acid, Technical** Assay: 97.0% Containers: Wooden barrels (T&G lined)	**Para Chlor Benzoic Acid, Technical** Assay: 97.0% Containers: Wooden barrels (T&G lined)	**2,4-Dichlor Benzoic Acid, Technical** Assay: 97.0% Containers: Wooden barrels	**3,4-Dichlor Benzoic Acid, Technical** Assay: 97.0% Containers: Wooden barrels

You are invited to write for technical literature on these chemicals.

HEYDEN CHEMICAL CORPORATION
393 Seventh Ave., — New York 1, N. Y.
CHICAGO OFFICE, 20 North Wacker Drive
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FINE HEYDEN CHEMICALS

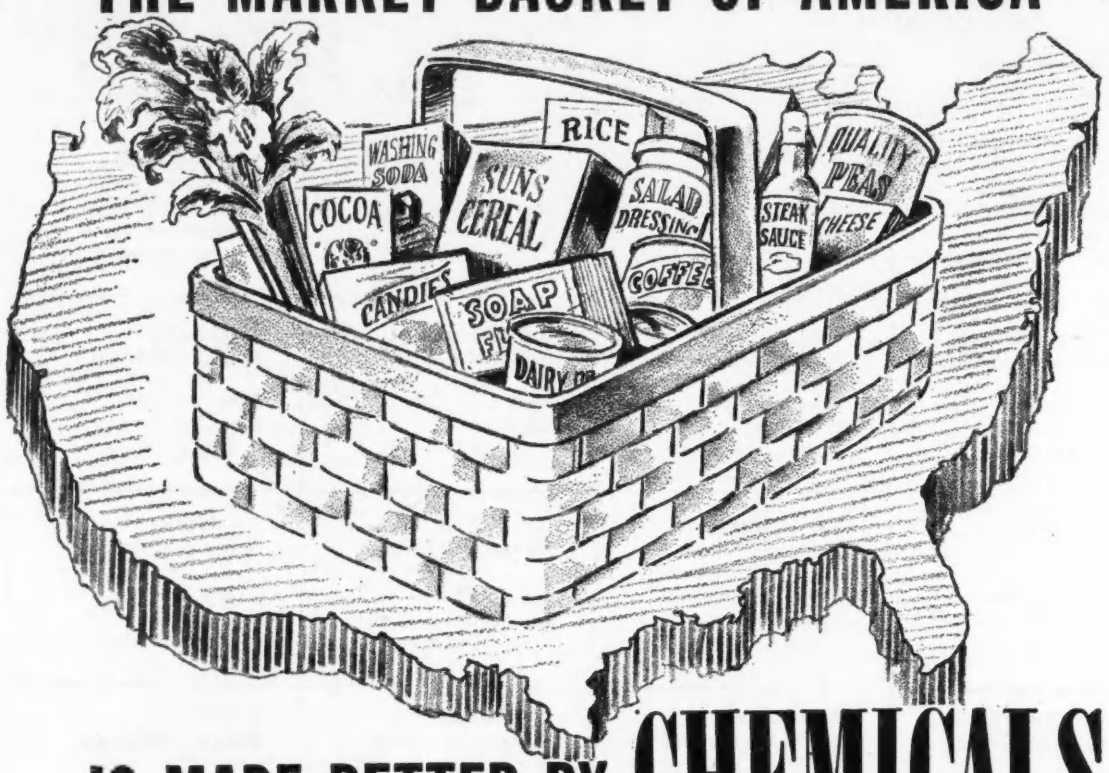
Benzaldehyde • Benzoates • Benzoic Acid • Benzyl Chloride Bromides • Chlorinated Aromatics • Medicinal Creosotes Formates • Formaldehyde • Formic Acid • Glycerophosphates • Medicinal Guaiacols • Hexamethylenetetramine M.D.A. • Paraformaldehyde • Parahydroxybenzoates Penicillin • Pentaerythritols • Salicylates

Fleaseed, black, bgs.....lb. .55 - .60
Blonde, bgs.....lb. .31 - .33
Fluorspar, No. 1, ground 95-98% CaF_2 bulk, c.l., mines, net ton.37.00 - —
Washed, gravel, 70% or more CaF_2 c.l., bulk, mines, ton.33.00 - —
85%, c.l., bulk, mines....ton.32.00 - —
60%, c.l., bulk, mines....ton.31.00 - —
less than 60%, c.l., bulk, mines..ton.30.00 - —
Formaldehyde, bbls., c.l., works, lb. .0645- —
l.c.l., works.....lb. .0695- —
dms., extra, c.l., works.....lb. .0545- .0580
l.c.l., works.....lb. .0595- .0630
tanks, works.....lb. .0370- .0420
tanktrucks, dlvd. N.Y.C.....lb. .0395- —
Fringetree bark, bls.....lb. .73 - .75
Fuller's earth, dom., powd., bags., c.l., Fla., Ga. mines..ton.30.00 - —
Tex. mines.....ton.27.00 - —
spent, bulk, Bayonne...ton. 6.00 - —
imp., bgs., c.l.....ton.30.00 - 40.00
Furfural, tech., dms., c.l., works, lb. .13 - —
l.c.l., cns., dms.....lb. .15½- .20½
tanks, works.....lb. .09½- —
Fusel oil, dms., c.l.....lb. .26½- —
l.c.l. .....lb. .27½- —
tanks .....lb. .25 - —
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .41 - —
No. 1A, bbls., l.c.l.....lb. .40 - —
No. 2, bbls., l.c.l.....lb. .39 - —
No. 3, bbls., l.c.l.....lb. .37 - —
liquid, No. 0, bbls., l.c.l...lb. .21½- —
No. 1, bbls., l.c.l.....lb. .20 - —
No. 2, bbls., l.c.l.....lb. .19 - —
No. 3, bbls., l.c.l.....lb. .16½- —
solid, No. 1, bxs., l.c.l....lb. .27 - —

G

G salt, bbls.....lb. .50 - —
Galangal root, bls.....lb. .25 - .26
Gambier, cube, plantations, ex dock..lb. .21 - .23
Extract, bbls.....lb. No stocks
Gammapicoline, 95%, dms., c.l., works..lb. 1.35 - —
Gasoline, at refinery, ex tax Arkansas, 73-75 octane, tanks, gal. .0825- —
Bayonne, 74 octane, tanks, gal. .0780- .09
Gulf Coast, 73-75 octane, tanks..gal. .0825- .085
Group 3, 73-75 octane, tanks, gal. .0775- .0825
Pennsylvania, western, U. S., motor, 74 octane, leaded, tanks..gal. .0825- .0925
natural, 26/70 octane, Group 3, tanks..gal. .05375- —
Gelatin, silver label, ctns., dlvd, lb. 1.25 - —
export, cs.....lb. 1.35 - —
Silver label prices 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash. and Wyo.
Geisemium root, bls.....lb. .35 - .40
Gentian root, bls.....lb. .20 - .21
grd., bbls., bxs.....lb. .26 - .27
powd., bbls., bxs.....lb. .24 - .25
Geraniol, 92-96%, cns., dms....lb. 7.75 -10.25
Geranyl acetate, cns.....lb. 6.75 - 9.25
Ginger, African, No. 1, bls...lb. .14 - .14½
Calicut, Romeo-type, bgs...lb. .16 - .16½
Cochin, bleached, bgs.....lb. .16 - .16½
unbleached, bgs. .....lb. .14 - .14½
Jamaica, No. 1, bgs.....lb. .18 - .18½
No. 2, bgs.....lb. .16 - .16½
No. 3, bgs.....lb. .15 - .15½
Rhattoon, bgs. .....lb. .14½ Nom.
Glauber's salt, anhyd. (see Soda sulphate).
cryst., bgs., works....100 lbs. 1.25 - 1.75
l.c.l., bgs., works..100 lbs. 1.65 - 2.10
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest. lb. .21 - —
30/36, bgs., c.l., same basis. lb. .21 - —
58/82, bgs., c.l., same basis. lb. .17 - .22½
82/108, bgs., c.l., same basis..lb. .18½- .23½
Bone glue, l.c.l. prices 1c. higher than c.l.
Hide, 100-121 (jelly test in grams), bgs., c.l., dlvd..lb. .21 - —
122-149, bgs., c.l., dlvd....lb. .22 - —
150-177, bgs., c.l., dlvd....lb. .23 - —
178-206, bgs., c.l., dlvd....lb. .24 - —
207-236, bgs., c.l., dlvd....lb. .25 - —
237-266, bgs., c.l., dlvd....lb. .26 - —
267-298, bgs., c.l., dlvd....lb. .27 - —
299-330, bgs., c.l., dlvd....lb. .28 - —
331-362, bgs., c.l., dlvd....lb. .29 - —
363-394, bgs., c.l., dlvd....lb. .30 - —
395-427, bgs., c.l., dlvd....lb. .31 - —
428-460, bgs., c.l., dlvd....lb. .32 - —
461-494, bgs., c.l., dlvd....lb. .33 - —
495-529, bgs., c.l., dlvd....lb. .34 - —
Hide glue l.c.l., prices 1c. higher than c.l. bbls., ½c. over bgs.
Glycerin, crude, saponification, 88%, to refiners, tanks..lb. .29 - —
soaplye, 80%, tanks.....lb. .26 - —
dynamite, dms., c.l.....lb. .40¼- —
l.c.l. .....lb. .40¾- —
tanks .....lb. .40 - —
high gravity, dms., c.l.....lb. .40¼- —
l.c.l. .....lb. .40¾- —
tanks .....lb. .40 - —
Glycerin, refined, B.P., 98%, dms., c.l..lb. .40¾- —
tanks .....lb. .40½- —
USP, 95%, dms., c.l.....lb. .40¾- —
l.c.l. .....lb. .40¾- —
tanks .....lb. .40 - —
yellow, distilled, dms., c.l...lb. .40 - —
tanks .....lb. .40 - —
Glycine, USP (see Acid, ammocetic).
Glycol, boriborate, dms.....lb. .22 - —
Stearate, dms.....lb. .26 - —
Gold chloride, acid-brown, bots. oz.20.00 -20.50
acid-yellow, bots.....oz.18.75 -19.00
Gold-soda chloride, photo, bots. oz.13.00 -13.50
USP IX, bots.....oz.14.00 -14.50
Goldenseal root, bls.....lb. 8.50 - 8.75
powd., bxs. .....lb. 9.00 - 9.25
Gold of pleasure, seed, bgs., futures..lb. .29 - .30
Grains of paradise, bgs.....lb. .28 - .29
Graphite, dom., crystalline, 80% through 50 mesh, graphitic carbon content 65-70%, bgs., whse..lb. .04½- —
70-75%, bgs., same basis, lb. .05 - —
75-80%, same basis....lb. .05½- —
80-85%, bgs., same basis, lb. .06 - —
85-90%, bgs., same basis, lb. .07 - —
90% and up, same basis. lb. .08 - —
imported, amorphous, powd. dlvd..lb. .04 - .06
crystalline, 88-90%, powd., same basis..lb. .14 - .16
90-92%, powd., same basis.. lb. .16 - .19
97% powd., same basis..lb. .22 - .25
flake, No. 1, 90-95%, 200-lb. crtns, same basis..lb. .21 - .23
No. 2, same basis..... lb. .23 - .24
Grease, house, loose.....lb. .11¾- —
yellow, loose .....lb. .11¼- —
white, choice, loose.....lb. .13 - —
Wool (see (Adeps lanae and Degras).
Green, brilliant, thioflavin toner molybdic, kgs., works..lb. 4.25 - —
tungstic, kgs., works.....lb. 3.75 - —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .31 - —
6-10%, bbls., same basis. lb. .32 - —
11-15%, bbls., same basis. lb. .33 - —
16-20%, bbls., same basis. lb. .33½- —
21-25%, bbls., same basis. lb. .34½- —
26-30%, bbls., same basis. lb. .34¾- —
31-35%, bbls., same basis. lb. .35½- —
36-40%, bbls., same basis. lb. .37½- —
41-45%, bbls., same basis. lb. .39 - —
46-50%, bbls., same basis. lb. .40¾- —
50% and over, bbls., same basis..lb. .41¾- —
reduced color, 5%, bbls., same basis..lb. .10 - —
6-10%, bbls., same basis.lb. .10¾- —
11-13%, bbls., same basis.lb. .11¼- —
14-16%, bbls., same basis.lb. .12 - —
17-19%, bbls., same basis.lb. .12¼- —
20-21%, bbls., same basis.lb. .12½- —
22-23%, bbls., same basis.lb. .12¾- —
24-25%, bbls., same basis.lb. .13 - —
26-27%, bbls., same basis.lb. .13½- —
28-29%, bbls., same basis.lb. .14 - —
30-31%, bbls., same basis.lb. .15 - —
32-33%, bbls., same basis.lb. .16¼- —
34-35%, bbls., same basis.lb. .17¼- —
36-40%, bbls., same basis.lb. .20 - —
41-45%, bbls., same basis.lb. .22¾- —
46-50%, bbls., same basis.lb. .23¾- —
51-55%, bbls., same basis.lb. .23¾- —
56-60%, bbls., same basis.lb .24 - —
61-65%, bbls., same basis.lb. .25 - —
66-70%, bbls., same basis.lb. .26¼- —
Chrome green prices are ¼c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Texas (Dallas Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City and Wichita, prices are equalized with Chicago.
Chrome oxide, pure, bgs., works, lb. .20 - .22
hydrated, bbls. .....lb. .35 - —
Malachite, thioflavin, toner, molybdic, bbls., works..lb. 3.00 - —
tungstic, bbls., works.....lb. 3.40 - —
Phthalocyanin, toner, bbls., works..lb. 4.40 - 5.00
Paris (see P).
Tungstated, brilliant, kgs....lb. 3.00 - 4.00
emerald, kgs. .....lb. 2.60 - —
Verdigris (see v).
Green dyes (see Dyes, coaltar).
Grindelia robusta, bls. .....lb. .30 - .35
Guaiac, resin, cs.....lb. .48 - .49
Wood, bls.....lb. .35 - .36
Guaiacol, cryst., N.F., tins...lb. 1.75 - —
Liquid, NF., bots., cbys....lb. 1.50 - —
Carbonate, dms. .....lb. 2.85 - —
Guarana, powd., cs. .....lb. 2.00 - 2.10
Gum accroides (see Gum, yacca).
Aloe (see A).
Ammoniac, tears, cs.....lb. .90 - .95
Arabic, amber, sorts, bgs....lb .14 - .14½
white, sorts, 1, bgs.....lb. .28 - .29
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs.....lb. .60 - .65
Camphor (see C).
Copal, Congo, bgs.....lb. No prices.
East India, bgs. .....lb. No prices.
Manila, baskets .....lb. No prices.
Dammar, Batavia, AE, cs...lb. .35 - —
F, cs. .....lb. .24 - .27
Singapore, No. 1, cs.....lb. .35 - —
No. 2, cs.....lb. .32 - —
Batu, bold, cs.....lb. .14 - —
nubs, chips, bgs.....lb. .09½- —
Elemi, cns. .....lb. .29 - —
Ester, gum-resin type, dms., c.l., dlvd., Ill., Ind., Ky., Mich., Mid-Atl. States, N. England States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va.....any quantity. .19½- —
wood-resin type, dms., any quantity, dlvd. Ill., Ind., etc..lb. .18 - —
Euphorbium, cs. .....lb. 1.50 Nom.
Galbanum, cs. .....lb. .95 - 1.00
Gamboge, pipes, cs.....lb. 2.30 - 2.40
powd., bbls. .....lb. 2.50 - 2.60
Ghatti, bgs. .....lb. No stocks.
Guaiac (see Guaiac resin).
Kauri, bgs. .....lb. .31 - —
Locust bean, powd., bbls....lb. .45 - —
Mastic, cs. .....lb. 2.45 - 2.65
Myrrh, cs.....lb. .48 - .50

THE MARKET BASKET OF AMERICA



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With America's standard of living now on a $125,000,000,000 basis, the emphasis will be on quality. We shall see quality built into nature's products through chemistry.

Isco chemicals, gums and waxes go to market in improved grocery store consumer products. Isco waxes are used to polish and improve the appearance of grapefruit, apples, other fruits, and many vegetables. Isco gums are used in cheeses and other dairy products. Your favorite steak sauce may contain Isco Gum Tragacanth. Fillers for food products, raw materials for chewing gum, and food preservatives—all contain Isco Products. Your table salt runs free in any kind of weather because of an Isco Product. Jelly beans—when they are available—are polished with Isco Products. Chocolate coated nuts are made more tempting with Isco Products. Isco Gum Arabic goes into the manufacture of confections, and Isco Beeswax puts glamour into cosmetic creams.

You will find Isco chemicals in all walks of life—heavy industry, drugs and cosmetics, paints and varnishes, agricultural insecticides, to mention but a few. Why not put Isco's 131 years of experience to work for your products?

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Innis, Speiden & Co.

A NAME AS OLD AS THE AMERICAN CHEMICAL INDUSTRY

Gum, olibanum, siftings, cs.	lb.	.12	- .13
tears, cs.	lb.	.27	- .46
Opium (see O).			
Red (see Gum yacca).			
Rosin (see R).			
Sandarac, cks.	lb.	.85	- —
Scammony, cs.	lb.	1.50	- 1.55
Talha, bgs.	lb.	.10	- .11
Tragacanth, No. 1, cs.	lb.	3.75	- 3.80
No. 2, cs.	lb.	3.00	- 3.10
No. 3, cs.	lb.	2.00	- 2.10
Yacca, bgs.	lb.	.07	- —
Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald.	ton.	22.65	- —
Harlem River, N. Y., frt. equald.	ton.	28.25	- —
Medicine Lodge, Kans., frt. equald.	ton.	17.00	- —
New Brighton, N. Y., frt. equald.	ton.	30.65	- —
Southard, Okla., frt. equald.	ton.	17.00	- —
Sweetwater, Tex., frt. equald.	ton.	21.45	- —
Plaster of Paris, paper bgs., c.l., Acme, Texas, frt. equald.	ton.	12.50	- —
Blue Rapids, Kans., frt. equald.	ton.	10.50	- —
Harlem River, N. Y., frt. equald.	ton.	12.00	- —
Medicine Lodge, Kan., frt. equald.	ton.	12.50	- —
New Brighton, N. Y., frt. equald.	ton.	13.00	- —
Southard, Okla., frt. equald.	ton.	12.50	- —
Sweetwater, Tex., frt. equald.	ton.	12.50	- —
Stucco, paper bgs., c.l., Acme, Texas; Akron, N. Y.; Blue Rapids, Kans.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, Ohio; Harlem River, N. Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Ga.; Portsmouth, N. H.; Roton, Tex.; Southard, Okla.; Sweetwater, Tex.; frt. equald.	ton.	8.00	- —
Saltville, Va., frt. equald.	ton.	9.00	- —
Terra alba, paper bgs., c.l., Harlem River, N. Y.; works.	ton.	22.50	- —
New Brighton, N. Y., same basis.	ton.	21.00	- —

H

Hawthorn berries, bgs.	lb.	.57	- .58
Heliotropin, cryst., cns.	lb.	2.95	- 4.00
Hellebore, white, powd., bbls.	lb.	.70	- .71
Helonias root, bls.	lb.	2.20	- 2.25
Hematine extract, cryst., No. 0, bbls., l.c.l.	lb.	.44	- —
No. 1, bbls., l.c.l.	lb.	.43	- —
No. 1A, bbls., l.c.l.	lb.	.40	- —
No. 2, bbls., l.c.l.	lb.	.39	- —
No. 3, bbls., l.c.l.	lb.	.37	- —
No. 4, bbls., l.c.l.	lb.	.35	- —
No. 5, bbls., l.c.l.	lb.	.30	- —
paste, No. 1, bbls., l.c.l.	lb.	.18½	- —
No. 2, bbls., l.c.l.	lb.	.17½	- —
No. 3, bbls., l.c.l.	lb.	.16½	- —
red, No. 4, bbls., l.c.l.	lb.	.12	- —
Hemlock bark extract, 25% tan, bbls., c.l., works.	lb.	No stocks	
tanks, works.	lb.	No stocks	
Henbane leaves, bls.	lb.	1.00	- 1.25
Henna leaves, bls.	lb.	.25	- .28
powd., bbls., bxs.	lb.	.34	- .36
Heptane, industrial grade, 90°-100° C., dms., c.l., Group 3,	gal.	.13½	- .16
l.c.l., Group 3.	gal.	.19	- .35
tanks, Group 3.	gal.	.10¾	- .10½
77°-115° C., dms., c.l., Group 3.	gal.	.13½	- .17
l.c.l., Group 3.	gal.	.19	- .35
tanks, Group 3.	gal.	.10½	- .11¼
laboratory grade, dms., c.l., Group 3.	gal.	.16	- —
l.c.l., Group 3.	gal.	.29	- .55
Hexalin (see cyclohexanol).			
Hexaethyl tetraphosphate, cns., works.	lb.	1.25	- —
dms., c.l., works.	lb.	.80	- —
l.c.l., works.	lb.	.90	- 1.00
Hexamethylenetetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C.	lb.	.24	- —
smaller lots, same basis.	lb.	.25	- —
USP, dms., 500 lbs. or more, same basis.	lb.	.35	- —
smaller lots, same basis.	lb.	.36	- —
Hexane, 60°-70° C., industrial grades, dms., c.l., Group 3.	gal.	.14¼	- .17
l.c.l., Group 3.	gal.	.19	- .35
tanks, Group 3.	gal.	.10¾	- .11¼
laboratory grade, dms., c.l., Group 3.	gal.	.16	- —
l.c.l., Group 3.	gal.	.29	- .55
Hexanol, normal, dms., l.c.l., works.	lb.	.25	- —
Homatropine hydrobromide, bots.	oz.	15.00	-25.00
Hydrochloride, bots.	oz.	20.00	-22.00
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago.	unit-ton.	6.75	- —
Hops, NF, bls.	lb.	.55	- 1.30
Horehound, bls.	lb.	.12	- .13
Hydrangea, root, bls.	lb.	.22	- .25
Hydrastine, alkaloid, bots.	oz.	20.00	-22.00
Sulphate, bots.	oz.	29.00	-32.00
Hydrastinine, 10-gr. bots.	bot.	1.95	- —
Hydrastis (see Goldenseal).			
Hydrofuramide, dms., fib. cns., works.	lb.	.30	- .40
Hydrogen peroxide, USP, bbls.	lb.	.03¾	- .04
100 vols., cbys., E. of Miss. River or West coast via Panama Canal.	lb.	.15½	- .18½
Hydroquinine bbls., dms.	lb.	.90	- .94
Hydroxycitronellal, cns.	lb.	13.00	-21.00
dms., extra, ret'able, divd.	lb.	12.50	-16.00
Hyoscine hydrobromide, bots.	oz.	39.00	-45.00
Hyoscyamine, bots.	oz.	18.00	-20.00
Hydrobromide, bots.	oz.	18.00	-19.50
Sulphate, bots.	oz.	14.00	-19.50
Hypernic extract, cryst., No. 1, bbls., l.c.l.	lb.	.51	- —
No. 2, bbls., l.c.l.	lb.	.43	- —
liquid, No. 1, bbls., l.c.l.	lb.	.28	- —
No. 2, bbls., l.c.l.	lb.	.23	- —
solid, No. 1, bxs., l.c.l.	lb.	.40	- —
Hyssop herb, bgs.	lb.	.55	- .60
leaves, bgs.	lb.	.60	- .70

I

Iceland moss, bgs.	lb.	.50	- .52
Ichthammol, NF, bots.	lb.	2.45	- —
Indian red (see Red, Indian).			
Indigo, nat., chests.	lb.	2.14	- 2.30
synth., paste, bots.	lb.	.16½	- .19
powd., bbls.	lb.	.74½	- .85
Indol, CP, bots.	lb.	19.00	-22.00
Inositol, tins, works.	lb.	5.00	- —
Insect flowers (see Pyrethrum).			
Iodine, crude, 150-lb. kgs., ex whse., Staten Island.	lb.	1.729	- —
resubl., 5-lb. bots., jars.	lb.	2.10	- 2.20
Iodoform, 100-lb. dms., kgs.	lb.	4.45	- —
Ionone ketone, alpha, cns.	lb.	15.00	-16.40
beta, cns.	lb.	11.50	-12.50
pure, cns.	lb.	6.75	- 9.75
Methyl, A, cns.	lb.	8.50	- 8.80
D, cns.	lb.	9.20	- 9.55
prime, cns.	lb.	6.10	- 6.40
Ipecac root, bgs.	lb.	5.25	- 5.50
powd., bgs.	lb.	5.50	- 5.75
Irish moss, bleached, prime.	lb.	.35	- .50
Iron acetate, liquor, 28°, bbls., c.l., works.	lb.	.09	- —
l.c.l., works	lb.	.09¾	- —
solut., USP IX, 100-lb. cbys.	lb.	.17	- —
50-lb. djns	lb.	.18	- —
Chloride (ferric), anhydr., tech., dms., c.l., works.	100 lbs.	4.90	- 5.25
l.c.l., works.	100 lbs.	6.50	- 6.85
cryst., tech., bbls., works, frt. alld.	100 lbs.	4.00	- 6.00
USP X, lump, bbls.	lb.	.07	- .08½
solut., 42 Be, cbys., works, frt. alld. or equald.	lb.	.05½	- .06
djns., same basis.	lb.	.10	- —
Citrate, gran., dms.	lb.	.77	- .79
Glycerophosphate, N.F., powd.	lb.	4.35	- —
Hypophosphite, bbls., dms.	lb.	1.50	- 1.52
Iodide, bots.	lb.	3.48	- 3.63
Naphthenate, 6% Fe, 50-gal. dms.	lb.	.19¼	- —
Nitrate, red, tech., dms.	lb.	.03½	- .04
Oxalate, gran., dms.	lb.	.33	- .35
powd., cns.	lb.	.52	- —
kgs.	lb.	.47	- .49
Phosphate, soluble, NF, gran., cs.	lb.	.54	- .57
Iron pyrophosphate, NF, gran., soluble, dms.	lb.	.59	- .62
Reduced, 90%, kgs.	lb.	.65	- .75
Resinate, 7.4%, Fe, 100-lb. dms.	lb.	.22	- —
Stearate, dms., c.l.	lb.	.53	- —
ton lots	lb.	.54	- —
less ton lots	lb.	.55	- —
Sulphate (ferric), anhyd., bgs., c.l., works.	ton.	35.00	- —
l.c.l., works	ton.	40.00	- —
partially hydrated, bgs., c.l., works.	ton.	26.50	- —
(ferrous) tech. (see Copperas).			
USP, cryst., bbls., dms.	lb.	.08	- .08
Iron - ammonia citrate, brown, green, gran., dms.	lb.	.45	- .48
Oxalate, bbls.	lb.	.23½	- —
dms., kgs.	lb.	.25½	- .26½
Iron-soda oxalate, bbls., dms.	lb.	.25½	- .26½
Isobutyl acetate, cns.	lb.	1.00	- 1.10
Isobornyl thiocyanoacetate, dms., c.l., works.	gal.	4.35	- —
l.c.l., works	gal.	4.45	- 4.55
tanks, works	gal.	4.23	- —
Isobutyl acetate, cns.	lb.	1.05	- 1.10
Propionate, cns.	lb.	No prices.	
Isobutyraldehyde, dms., works.	lb.	.33	- —
10-gallon lots, works.	lb.	.36	- —
Isoeugenol, extra, cns.	lb.	3.45	- 4.00
Isopentane, dms., works.	lb.	.45	- .55
Isophorone, dms., c.l., works.	lb.	.21	- —
l.c.l., works	lb.	.22	- —
tanks, works	lb.	.20	- —
Isopropanol (see Alcohol, isopropyl).			
Isopropyl acetate, dms., c.l., E. of Rockies, frt. alld.	lb.	.1160	- .1210
l.c.l., E. of Rockies, same basis.	lb.	.1210	- .1260
tanks, E. of Rockies, same basis.	lb.	.1100	- .1160
Alcohol (see Alcohol, isopropyl).			
Ether, dms., c.l., divd.	lb.	.06	- —
l.c.l.	lb.	.06½	- —
tanks, divd.	lb.	.04½	- —
Isopropylamine, dms., works.	lb.	.25	- —

J

Jaborandi leaves, bls.	lb.	.24	- .25
Jalap root, NF, bls.	lb.	.42	- .45
powd., bbls., bxs.	lb.	.50	- .55
Resin, lump, cns.	lb.	5.85	- —
powd., bxs.	lb.	5.90	- —
Juniper berries, bgs.	lb.	.12	- .20
Juniper tar, USP, dms.	lb.	.68	- 1.00

K

Kamala, powd., cns.	lb.	.48	- .48
Kaolin (see China clay).			
Kava kava root, bls.	lb.	.35	- .40
Kerosene, at refinery; Ark., 42-44 w.w., tanks.	gal.	.06625	- .07125
Bayonne, 41-43, w.w., tanks, gal.		.061	- —
California, 40-43, w.w., tanks, gal.		.073	- .1155
Gulf ports, 41-43, w.w., tanks, gal.		.0600	- .0650
Okla.-Tex., 41-43, w.w., tanks, gal.		.06875	- .07125
Penn., 45 w.w., tanks.	gal.	.0775	- .0795
47 w.w., tanks.	gal.	.0825	- .083
Kola nuts, bgs.	lb.	.06	- .09
Kyanite, imp., low iron content, 10-mesh, whse.	ton.	85.00	-95.00
calcined, grain, 10-mesh, whse.	ton.	95.00	-105.00

L

Ladyslipper root, bls.	lb.	1.35	- 1.40
Lanolin (see Adeps lanae).			
Lard, cash, Chicago, trcs.	lb.	.21	Nom.
Larkspur seed, bgs.	lb.	.75	- .90
Larkspur seed, bgs.	lb.	.65	- .70

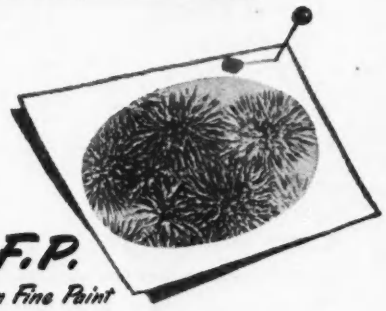
There's no place like home to prove it—Basic Carbonate White Lead does *more* things to help you make good house paint.

Check the list above. White Lead not only offers all 14 of these welcome properties, but it imparts them, in well-balanced proportion, to paints.

Thus, White Lead makes it easy for you to turn out good paint . . . easy for the paint user to turn out a good, durable job.

Many of White Lead's paint-making properties are directly due to its unique ability to form lead "soaps." At the right, you'll find why *Lead Soaps Mean Fine Paint.*

Consult National Lead's technical staff for the whole picture of how "Dutch Boy" Basic Carbonate White Leads will dovetail into your formulations. Their recommendations are backed up by broad experience and 30 years of continuous paint-fence testing . . . the longest project of its kind on record.



L.S.M.F.P.
Lead Soaps Mean Fine Paint

The photomicrograph above shows how lead "soaps" form when White Lead combines with oil. Note the intermeshing fibrous structure, consisting of multiple projections radiating from the central cores. This reinforced structure produces a more completely bonded film, having greater toughness, elasticity, adhesion and weather resistance.

White Lead's affinity for linseed oil also explains the ready wetting of this pigment, which makes it easy to mix and grind.

Dutch Boy *Basic Carbonate* **White Leads**
Reg. U. S. Pat. Off.

NATIONAL LEAD COMPANY—New York, 6; Buffalo 3; Chicago 8; Cincinnati 3; Cleveland 13; St. Louis, 1; San Francisco 10; Boston 6, (National Lead Co. of Mass.); Philadelphia 7, (John T. Lewis & Bros. Co.); Pittsburgh 30, (National Lead Co. of Pa.).

Laurel berries, bls.....lb. .25 - .26
Leaves, Algerian, bls.....lb. .13 - .13½
Cyprus, bls.....lb. .28 Nom.
Greek, bls.....lb. .11½- .12
Italian, bls.....lb. .10½- .11
Portuguese, choice, bls.....lb. .10½- .11
Turkish, bls.....lb. .10½- .11
choice, bls.....lb. .17 - .17½
Lavender flowers, medium, bls.lb. .50 - .55
ordinary, bls.....lb. .35 - .45
select, bls.....lb. .65 - .70
Lead, acetate, white, broken, bbls..lb. .18½- —
cryst., bbls.....lb. .19¼- —
gran., powd., bbls.....lb. .19¼- —
Arsenate, basic powder, 2-lb. bgs. or larger, c.l..lb. .21¾- —
l.c.l.....lb. .22¾- .23¾
1-lb. bgs, c.l.....lb. .29¼- —
l.c.l.....lb. .30¼- .31¼

Lead arsenate prices are works or whse. basis, frt. alld. on 96 lbs. or more to dest. East.

Blue, basic sulphate, bbls., c.l., 20-ton lots, f.o.b. ship't pt, frt. alld..lb. .15¼- —
l.c.l., works.....lb. .15½- —
Carbonate (see Lead, white).
Chloride, flb. dms.....lb. .49 - —
Iodide, NF V, jars.....lb. 2.04 - —
Linoleate, solid, 13%, bbls..lb. .41¾- —
Metal, pigs, prime, N. Y.....lb. .15 - —
East St. Louis.....lb. .14½- —
Metallic paste, dms., works..lb. No stocks
Naphthenate, 21% Pb, liquid, dms..lb. .20½- —
30% Pb, liquid, dms.....lb. .24¾- —
37% Pb, solid dms.....lb. .27½- —
Nitrate, bbls., l.c.....lb. .17¾- —
l.c.l.....lb. .18 - —
Oleate, bbls.....lb. .17¼- —
Peroxide, powd., tech., bbls., lb. .23 - .24
Red, 95% Pb_3O_4 or less, bbls., c.l. (20 tons), f.o.b. ship't point, frt. alld..lb. .1780- —
Lead, red, 95%, Pb_3O_4 or less, bbls., l.c.l., 5 tons, f.o.b. ship't point, frt. alld. lb. .1800- —
smaller lots, f.o.b. ship't point, frt. alld..lb. .1850- —
in oil, kgs.....lb. .2675- —
97% Pb_3O_4, bbls., c.l., (20 tons), f.o.b. ship't point, frt. alld..lb. .1785- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld..lb. .1825- —
smaller lots, f.o.b. ship't point, frt. alld..lb. .1875- —
98% Pb_3O_4, bbls., c.l. (20 tons), f.o.b. ship't point, frt. alld..lb. .1810- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld..lb. .1850- —
smaller lots, f.o.b. ship't point, frt. alld..lb. .1900- —
Resinate, precip., 23.8% Pb., dms..lb. .25 - —
Silicate, bgs.....lb. .17 - .17½
Soyate, 20.15% Pb., dms.....lb. .22¼- —
Stearate, bbls., c.l.....lb. .55 - —
ton lots.....lb. .56 - —
less ton lots.....lb. .57 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Tallate, 16% Pb., liquid, dms., lb. No prices
30% Pb., solid, dms.....lb. No prices
White, basic carbonate, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .15¾- —
l.c.l., works.....lb. .16 - —
basic sulphate, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .15½- —
l.c.l., works.....lb. .15½- —
in oil, consumers, kgs.....lb. .27 - —
painters, kgs.....lb. .25¾- —
Lecithin, edible, dms., c.l.....lb. .36 - —
l.c.l.....lb. .38½- .58½
tech., dms., c.l.....lb. .36 - —
l.c.l.....lb. .38½- .58½
Lemon peel, bls.....lb. .35 - .40
Licorice extract, mass, cns.....lb. .40 - .42
powd., bbls.....lb. .60 - .63
Root, natural, bls.....lb. .09½- .10
powd., bbls.....lb. .17 - .18
5-lb. bundles, cs.....lb. .60 - .65
Lignin extract, tanning grade, bgs., c.l., works..lb. .04¾- —
Lime, agricultural, bulk, works, tons. 9.00 - 9.50
Chemical (quicklime), lump, pebble, Adams, Mass..ton. 9.00 - —
Annville, Pa.....ton. 8.50 - —
Bellefonte, Pa.....ton. 8.50 - —
Berkeley, W. Va....ton. 8.50 - —
Buffalo, N. Y.....ton.10.25 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa....ton. 9.00 - —
Crab Orchard, Tenn.ton. 7.99 - —
Eagle Mountain, Va.ton. 8.50 - —
Farnams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio....ton. 7.50 - —
Hannibal, Mo.....ton. 7.50 - —
Keystone, Ala.....ton. 7.90 - —
Knoxville, Tenn.....ton. 7.90 - —
Limedale, Ark.....ton. 8.00 - —
Longview, Ala.....ton. 7.90 - —
Manistique, Mich....ton. 8.00 - —
Marblehead, Ohio....ton. 8.50 - —
Martinsburg, W. Va.ton. 8.50 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 7.50 - —
Newala, Ala.....ton. 7.90 - —
Ripplemead, Va.....ton. 8.50 - —
Riverton, Va.....ton. 8.50 - —
Rockland, Maine....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Tenn.....ton. 8.39 - —
Sherwood, Wis.....ton. 8.50 - —
Springfield, Mo.....ton. 8.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
Lime, hydrated, paper bgs., Adams, Mass.....ton.11.25 - —
Annville, Pa.....ton.11.00 - —
Bellefonte, Pa.....ton.11.00 - —
Berkeley, W. Va....ton.10.00 - —
Buffalo, N. Y.....ton.11.00 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa...ton.11.00 - —
Crab Orchard, Tenn..ton.10.65 - —
Eagle Mountain, Va..ton.10.00 - —
Engle, W. Va.....ton.11.00 - —
Farnams, Mass.....ton.11.00 - —
Gibsonburg, Ohio....ton. 9.50 - —
Hannibal, Mo.....ton. 9.50 - —
Keystone, Ala.....ton.11.65 - —
Knoxville, Tenn.....ton.11.00 - —
LeRoy, Minn.....ton.10.00 - —
Limedale, Ark.....ton.10.00 - —
Longview, Ala.....ton.11.65 - —
Manistique, Mich....ton. 9.50 - —
Marblehead, Ohio....ton.10.50 - —
Mitchell, Ind.....ton.10.00 - —
Newala, Ala.....ton.11.65 - —
Petoskey, Mich.....ton.10.00 - —
Port Island, Mich...ton. 9.00 - —
Rapid City, S. Dak..ton.12.00 - —
Ripplemead, Va.....ton.10.00 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton.12.14 - —
Sherwood, Wis.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton.11.00 - —
spray, Adams, Mass, paper.ton.11.00 - —
Annville, Pa.....ton.11.00 - —
Bellefonte, Pa.....ton.11.00 - —
Carey, Ohio.....ton.11.00 - —
Engle, W. Va.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio....ton.10.00 - —
Marblehead, Ohio....ton.10.00 - —
Rockland, Me.....ton.10.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville Ohio.....ton.10.00 - —
York Pa.....ton.11.00 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen* 20.5% N. (see Ammonia nitrate-limestone).
Limestone, ground, bulk, works.. ton. 1.40 - —
Linalool, ex bois de rose.....lb. 7.75 - 8.15
ex lignaloe wood.....lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose, bots..lb. 6.40 - 7.50
ex lignaloe wood, bots.....lb. 8.25 - 8.40
ex petitgrain, bots.....lb. 5.10 - 6.85
Linden flowers with leaves, bls. lb. .40 - .42
without leaves, bls.....lb. .50 - .51
Linseed meal, 34%, bulk, mills. ton.63.00 -65.00
Litharge, com'l, powd., bbls., c.l., f.o.b. ship't point, frt. alld..lb. .1660- —
l.c.l., 5 tons, f.o.b. ship't point, frt. alld..lb. .17 - —
smaller lots, f.o.b. ship't point, frt. alld..lb. .17½- —
Lithium bromide, bbls., 100-lb. lots, works, frt. equald.ton. 1.90 - —
Carbonate, NF, bbls., kgs...lb. 1.15 - —
Chloride, jars.....lb. 1.15 - 1.65
Citrate, bbls., dms., kgs....lb. 1.30 - 1.45
Fluoride, bbls.....lb. 1.90 - —
Hydroxide, jars.....lb. 1.15 - 1.25
Lithopone, ordinary, bgs., c.l., (20 tons)..lb. .05½- —
l.c.l.....lb. .05¾- —
bbls., c.l.....lb. .05¾- —
l.c.l.....lb. .06 - —
Titanated (high-strength), bgs., lb. .07½- —
smaller lots.....lb. .07½- —
bbls., c.l.....lb. .07½- —
smaller lots.....lb. .07¾- —

Lithopone, c.l., divd. Pac. Cst., ¼c. higher; l.c.l., ex whse. Pac. Cst. ½c. higher.

Liverwort leaves, bls.....lb. .65 - .70
Lobelia herb, bls.....lb. .70 - .73
Lobeline sulphate, bots., wks.oz.25.50 -38.00
Logwood extract, crystals, No. 1, bbls., l.c.l..lb. .37 - —
No. 2, bbls., l.c.l.....lb. .35 - —
Liquid, No. 1, bbls., c.l....lb. .18 - —
No. 2, bbls., l.c.l.....lb. .17 - —
No. 3, bbls., l.c.l.....lb. .16½- —
No. 4, bbls., l.c.l.....lb. .16 - —
solid, No. 1, bxs., l.c.l....lb. .32 - —
No. 2, bxs., l.c.l.....lb. .30 - —
No. 4, bxs., l.c.l.....lb. .27½- —
No. 5, bxs., l.c.l.....lb. .25½- —
No. 6, bxs., l.c.l.....lb. .43½- .48½
Lovage root, imported, bls....lb. 1.20 - 1.25
Lupulin, NF, tin.....lb.10.00 -11.00
Lycopodium, USP, cs.....lb. 2.50 - 3.00

M

Mace, No. 1, Siauw, cs.....lb. 1.50 - 1.55
East Indian, bgs., futures...lb. 1.60 - 1.65
West Indian, bgs., futures..lb. 1.45 - 1.50
Broken, bgs., futures.....lb. 1.30 - 1.46
Madder, Dutch, bgs.....lb. .29 - .32
Magnesia arsenate, bgs., cans, works..lb. .20 - .30
Calcined, tech., bbls., works, lb. .29 - —
USP, works.....lb. .31 - .33
Carbonate, tech., bgs., c.l., frt. equald..lb. .07¼- —
l.c.l., frt. alld.....lb. .08¼- —
bbls., c.l., frt. equald...lb. .08½- —
l.c.l., frt. alld.....lb. .09½- —
kgs., c.l., frt. equald....lb. .09¾- —
l.c.l., frt. alld.....lb. .10¾- —
USP, bgs., c.l., frt. equald.lb. .09 - —
l.c.l., frt. alld.....lb. .10 - —
bbls., c.l., frt. equald....lb. .09½- —
l.c.l., frt. alld.....lb. .10½- —
kgs., c.l., frt. equald....lb. .10¾- —
l.c.l., frt. alld.....lb. .11¾- —

Magnesia carbonate is quoted frt. alld. to N. J., except to Atlanta, Burlington, Cape May, Cumberland, Glostershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald. to N.Y.C. on all other destinations.

Chloride, anhyd., bbls., divd.lb. .12¾- —
flake, bbls., c.l., works..ton.37.00 - —
l.c.l., works.....ton 44.00 -46.00
Fluoride, bbls.....lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, cns.....lb. 1.45 - —
Laurate, bbls.....lb. .33 - .38
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works.lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls. lb. .62 - .67
Silicate (see Talc).
Silicofluoride, bbls.....lb. .14 - .16
Stearate, ctns., 2,000 lbs. to c.l. lb. .48 - —
smaller lots.....lb. .49 - —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000-lb. contracts..lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, calcined, powd., bgs., c.l., mines, Calif..ton.60.00 - —
dead-burnt, bulk, c.l., Chewelah, Wash..ton.24.00 - —

Michigan

CHEMICAL PRODUCTS Now Available

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Ammonium Bromide
Barium Bromide
Bromine
Bromoform
2-Bromothiophene
n-Butyl Bromide
Calcium Bromide
Calcium-Magnesium Chloride Liquid
Chlorobromomethane
2-Chlorothiophene
Dichloro-diphenyl-trichloroethane (DDT)
Ethyl Bromide
Ferrous Bromide, 50% Solution
Hydrobromic Acid
Magnesium Bromide
Magnesium Oxide Products
Methyl Bromide
Methylene Bromide
Phosphorous Tribromide
Potassium Bromide
Sodium Bromide
Sodium Chloride
Strontium Bromide
Zinc Bromide

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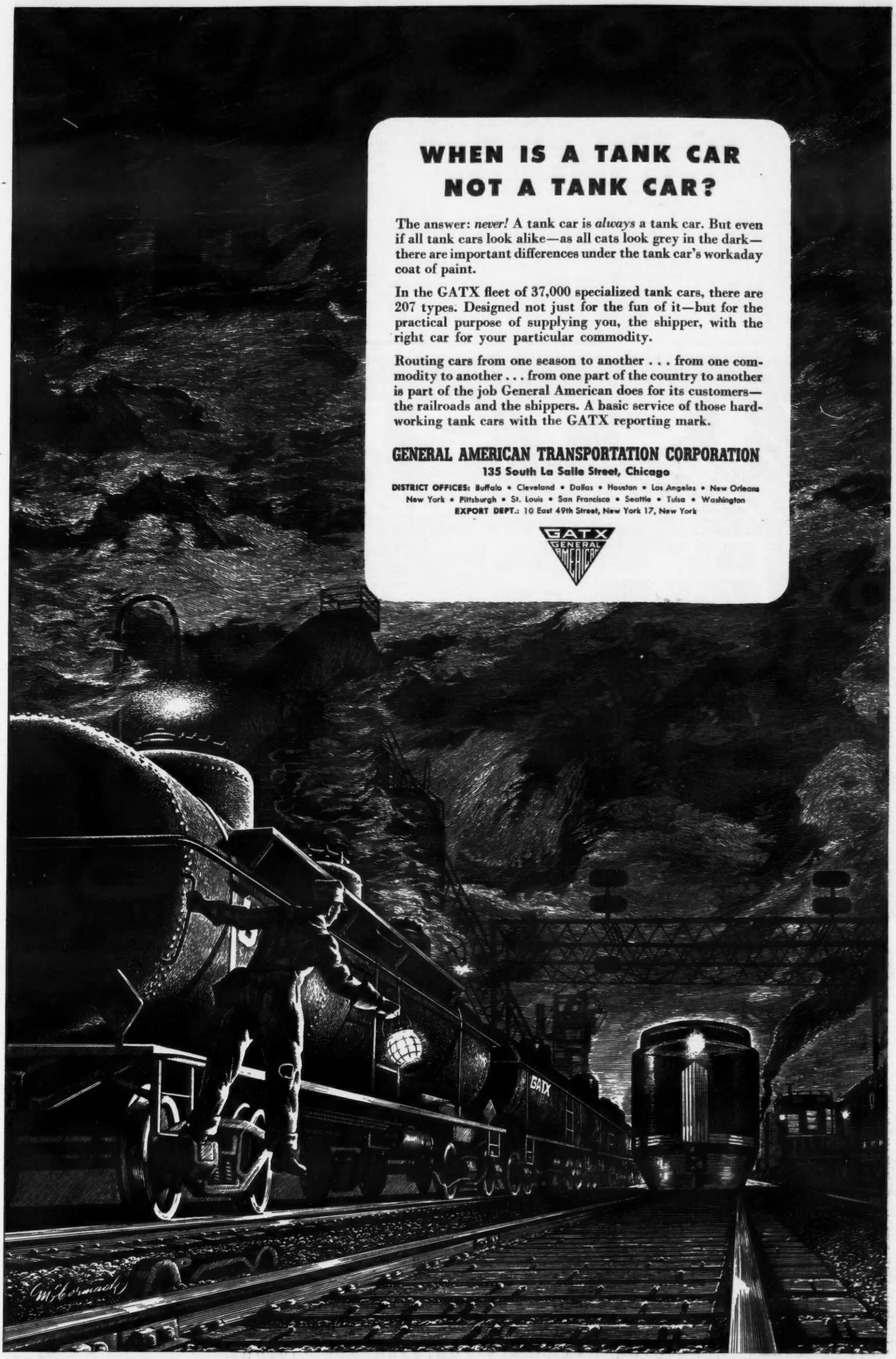


Maleic anhydride, dms., c.l....lb. .25 - —
l.c.l. ....lb. .26 - —
Malva flowers, black, bls.....lb. No stocks
blue, bls. ....lb. 1.45 - 1.50
Leaves, bls....lb. .40 - .41
Manaca root, bls....lb. .49 - .50
Mandrake root, bls....lb. .40 - .45
Manganese acetate, dms....lb. .25½- —
Arsenate, bgs. ....lb. .12 - .12¾
Borate, tech., bbls....lb. .16 - .18
Carbonate, bbls. ....lb. .19 - —
Chloride, anhyd., bbls., wks.lb. .14 - .16
Dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
85-90%, bbls., c.l., works. ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
84-87%, burlap bgs., c.l., works..ton.71.75 - —
l.c.l., works....ton.74.75 -79.79
paper bgs., c.l., works. ton.70.00 - —
l.c.l., works....ton.73.00 - —
Glycerophosphate, fib. dms..lb. 4.25 - —
Hydrate, bbls., dlvd....lb. .26 - —
Iodide, jars....lb. 5.55 - —
Linoleate, liquid, 4%, Mn, dms. lb. .42%- —
solid, precip., 8.2%, bbls..lb. .44%- —
Metal, dlvd. East....lb. .30 - .32
Naphthenate, liquid, 6% Mn, dms..lb. .21 - —
solid, 10% Mn, dms....lb. .33¼- —
Resinate, fused, 8½%, Mn, bbls. lb. .09 - .10½
precip., dms. ....lb. .20 - —
Soyate, 8.2% Mn, dms....lb. .22 - —

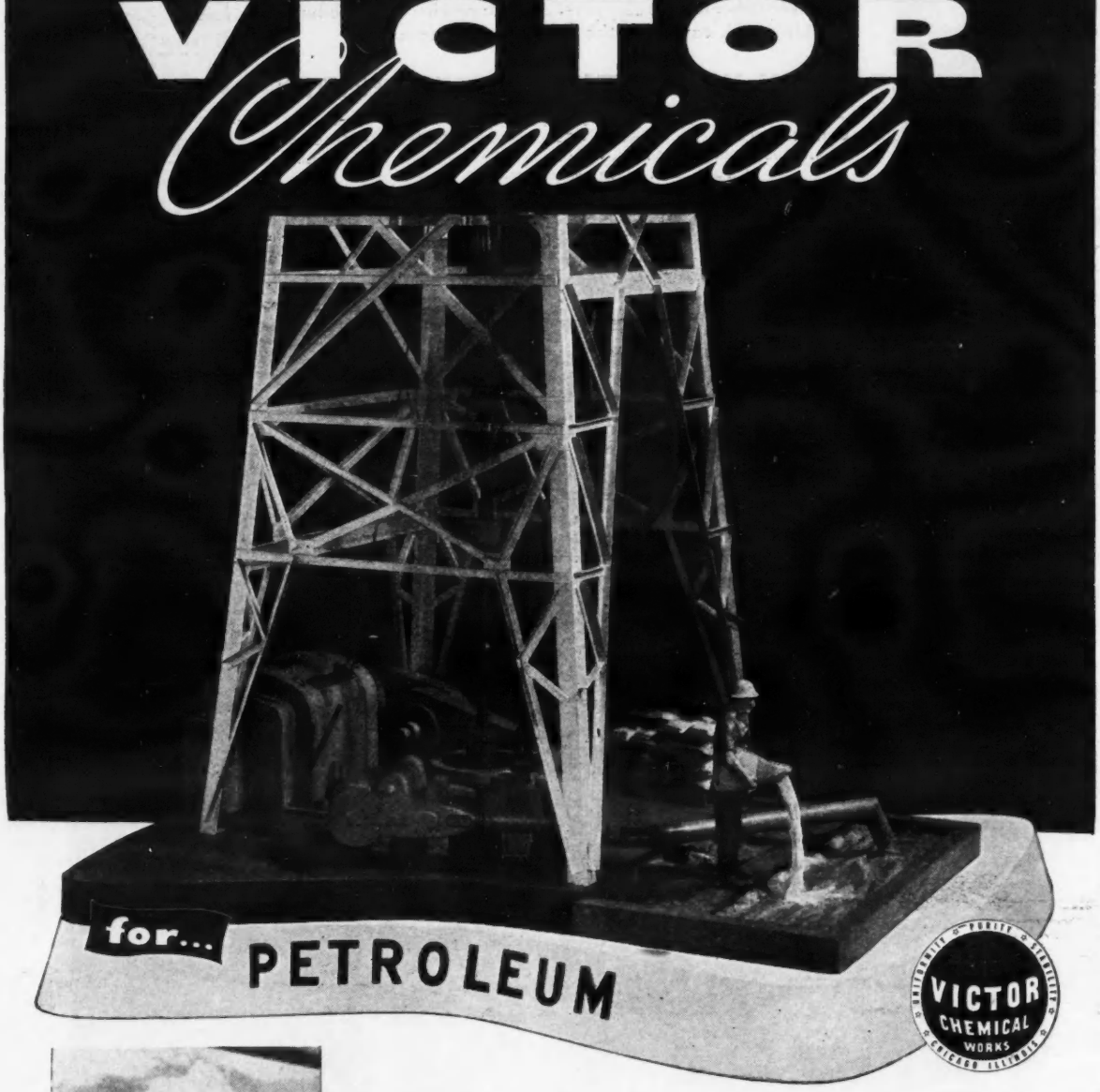
Manganese sulphate, anhyd., dms., works..lb. No stocks
feed grade, 77-80%, bgs....lb. .04 - .06
fertilizer grade, 65%, bgs., c.l., dlvd. East..ton.64.00 - —
l.c.l., same basis, or Balto. or Cincinnati... ton.68.00 - —
industrial grade, 80%, bgs.lb. .05 - .05¾
75%, bgs., c.l., dlvd. East. ton.64.50 - —
l.c.l., same basis....ton.71.50 - —
Tallate, liquid, 4% Mn, dms.lb. No prices
solid, 8% Mn, dms....lb. No prices
Magnesium metal, ingots, works. lb. .20½- —
Mangrove bark, E. Africa, 35% tannin, c.l., ex dock, U. S. ports..ton.60.00 -62.00
Manna, flake, large, cs....lb. 1.50 - 1.55
small, cs. ....lb. No stocks.
Mannitol, com'l, bbls., works.lb. .38 - .43
reagent, cs. or multiples, works..lb. .85 - —
Marjoram, Argentine, bls....lb. .14 Nom.
Chilean, bls....lb. .09½- .10
futures, bls....lb. .09½- .10
French, bls....lb. .34½- .35
Matico leaves, bls....lb. .17 - .18
Menadione, USP, bots., works. gram. .10 - —
Menthol, natural, USP, Brazilian. cns..lb. 8.75 - 9.00
synthetic, tech., cns....lb. 6.00 - 6.40
USP, laevo, cns....lb. No prices.
racemic, cns. ....lb. 7.00 - 7.40
Menthyl salicylate, tins....lb. 3.00 - 3.10
Mercurial ointment, USP, mild, 10%, dms..lb. .70 - .72
strong, dms. ....lb. 1.68 - 1.70
Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms. ....lb. 2.33 - 2.35
Chloride (see Calomel).

Mercury cyanide, crys., powd..lb. 3.54 - 3.59
Iodide, red, NF, dms....lb. 4.32 - —
yellow, NF, fib. dms....lb. 4.42 - —
Oxide, red, NF (see Red precipitate).
yellow, USP, fib. dms....lb. 2.74 - 2.76
tech. (see Yellow, mercury oxide).
Mesityl oxide, dms., c.l., dlvd.lb. .13 - —
l.c.l., dlvd. ....lb. .13¼- —
tanks, dlvd. ....lb. .11½- —
Metal leaf, composition, 3⅛x3⅛ in..pkg. No stocks.
Gold X+, deep, 23, 3⅛x3⅛ in., pkg. No stocks.
Silver, 3⅛x3⅛ in....pkg. No stocks.
Metanitroparatoluidin, bbls....lb. 1.19 - 1.21
Metaphenylenediamine, kgs....lb. .72 - —
Metatolylenediamine, kgs....lb. .77 - —
Methanol, natural, Group A, all grades, dms., extra, c.l., E. of Miss. R..gal. .63 - —
l.c.l., same basis....gal. .73 - —
tanks, same basis....gal. .60 - —
Group B, all grades, dms., incl. c.l., frt. alld..gal. .67 - —
l.c.l., same basis....gal. .78 - —
tanks, same basis....gal. .60 - —
Prices on natural methanol W. of Miss. R., 3c. higher.
synthetic, dms., c.l., Zone 1, frt. alld..gal. .34½- —
2, frt. alld. or dlvd..gal. .37½- —
3, frt. alld. ....gal. .41½- —
4, frt. alld. ....gal. .41½- —
l.c.l., Zone 1, frt. alld. or dlvd..gal. .37 - —
2, frt. alld. ....gal. .44 - —
3, dlvd. S. F. and L. A. gal. .42 - —
4, frt. alld. or dlvd....gal. .52½- —

Methanol, synthetic, tanks, Zone 1, frt. alld..lb. .24 - —
2, frt. alld. ....gal. .27 - —
3, frt. alld. ....gal. .29 - —
4, frt. alld. ....gal. .29 - —

Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah, and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, non-ret. dms., c.l., dlvd..lb. .16 - —
10 dms....lb. .16½- —
1-9 dms....lb. .17 - —
hydrogenated, c.l., dlvd....lb. .17¼- —
10 dms., dlvd....lb. .17¾- —
1-9 dms., dlvd....lb. .18¼- —
Acetate, CP, 97-99%, dms., c.l., E. of Miss..lb. .10½- .12
W. of Miss....lb. .11½- .12
l.c.l., E. of Miss....lb. .11 - .14
W. of Miss....lb. .12 - .13½
tanks, E. of Miss....lb. .09½- —
W. of Miss....lb. .10½- —
tech., dms., c.l., E. of Miss.lb. .07 - .09
W. of Miss....lb. .08 - —
l.c.l., E. of Miss....lb. .07½- .11
W. of Miss....lb. .08½- .10½
tanks, E. of Miss....lb. .06 - —
W. of Miss....lb. .07 - —
cns...lb. 8.75 - 9.00
Acetoacetate, dms., c.l., frt. alld. E..lb. .42 - —
l.c.l., same basis....lb. .42½- —
Methyl acetoacetate prices, frt. alld. W., ½c. higher.
Acetone, natural, Group A, dms., extra, c.l., E. of Miss., frt. alld..gal. .66 - —
l.c.l., same basis....gal. .76 - —
tanks, same basis....gal. .60 - —
Natural methyl acetone prices W. of Miss. R., 3c. per gal. higher.
Group B, dms., incl., c.l., E. Miss., frt. alld..gal. .67 - —
l.c.l., same basis....gal. .78 - —
tanks, same basis....gal. .60 - —
synthetic, dms., c.l., works, frt. alld. E..lb. .49 - —
frt. alld. W....lb. .51½- —
l.c.l., works, frt. alld. E. lb. .53 - —
frt. alld. W....lb. .55½- —
tanks, works, frt. alld. E.lb. .42½- —
frt. alld. W....lb. .44½- —
Methyl acetone, synth. East territory is all states East of and including Colo., Mont., N. Mex. and Wyo. West territory, all states West of Colo., Mont., N. Mex. and Wyo.
Alcohol (see Methanol).
Anthranilate, dms....lb. 2.20 - 2.50
bots., cns....lb. 2.20 - 2.60
Benzoate, cns....lb. .45 - 1.20
Bromide, cns....lb. .63 - .65
cyls. ....lb. .55 - .70
Chloride, indust. grade, cyl., works..lb. .16 - —
tanks, multi-unit, works.lb. .14¾- —
single-unit, works....lb. .14 - —
refrigeration grade, indust. consumers, refrigeration machinery mfgrs., cylinders, dlvd..lb. .33 - —
retail refrigeration consumers or service men, cylinders. dlvd..lb. .41 - —
Alcohol (see Methanol).
Cinnamate, cns....lb. 2.00 - 3.50
Formate, dms....lb. .89 - —
Iodide, bots....lb. 3.00 - 3.25
Lactate, dms., c.l., dlvd....lb. No stocks
Oleate, dms., c.l....lb. No prices
Salicylate, dms., 500 lbs....lb. .40 - —
25-50 lbs....lb. .45 - —
Methylamyl ketone, cns., dms., works..lb. No stocks
Methylcellulose, special, vis. (4,000 cps.) fib. ctns., 2,000 lbs. or more, frt. alld..lb. .60 - —
smaller lots, frt. alld....lb. .65 - .70
standard vis. (15-1,500 cps), fib. ctns., 2,000 lbs. or more, frt. alld..lb. .53 - —
smaller lots, frt. alld....lb. .58 - .63
Methylcyclonexane, 98-100% dms., works..lb. .16 - —
Methylcyclohexanol, 98-100%, dms., works..lb. .23 - —
Methylcyclohexanone, 98-100%, dms., works..lb. No stocks
Methylene blue, USP, 100-lb. lots, kgs., frt. equald..lb. 2.20 - —
50-lb. lots kgs., same basis, lb. 2.30 - —
25-lb. lots, kgs., same basis, lb. 2.35 - —
Chloride, refrig., dms., dlvd. E..lb. .12 - .13
Methyleneanilin, dms., ton lots, min. frt. alld..lb. .36 - —
smaller lots, same basis....lb. .37 - —
Methylethyl ketone, dms., dlvd.lb. .10½- —
l.c.l., dlvd....lb. .11 - —
tanks, dlvd....lb. .09 - —
Methylhexyl ketone, dms., tech., works..lb. .60 - —
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Methylisobutyl ketone, dms., c.l., dlvd..lb. .14 - —
l.c.l., dlvd....lb. .14½- —
tanks, dlvd....lb. .12½- —
Methylnaphthyl ketone, cns....lb. 3.00 - 3.75
Methylpentanediol, dms., dlvd., works..lb. .24½- —
l.c.l., dlvd....lb. .25½- —
tanks, dlvd....lb. .23 - —
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works.lb. .03½- —
roofing, 20 to 80 mesh, works, lb. .03¼- —
graphite, bulk, Pa., mines.ton.80.00 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E..lb. .05¾- —
extra fine, bgs., c.l., works, frt. alld. E..lb. .05 - —
l.c.l., ex whse. or frt. alld. E..lb. .05½- —
paint or lacq., bgs., c.l., works, frt. alld. E..lb. .06½- —
l.c.l., ex whse. or frt. alld. E..lb. .07 - —
rubber, bgs., c.l., works, frt. alld. E..lb. .06¼- —
l.c.l., ex whse. or frt. alld. E..lb. .06¾- —
wallpaper, bgs., c.l., works, frt. alld. E..lb. .06½- —
l.c.l., ex whse. or frt. alld. E..lb. .07 - —
white, extra fine, bgs., c.l., works, frt. alld. E..lb. .06¾- —
l.c.l., ex whse. or frt. alld. E..lb. .07¼- —
mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, ¾c. higher.



In the drilling of oil wells special muds are employed to cool and lubricate the drill bit, prevent cave-ins, hold back tremendous gas pressures and other purposes. Good drill mud must be sufficiently fluid to pump easily, yet capable of building thin, impermeable walls. It should be viscous, yet fluid enough to drop out rock cuttings in the mud pits. To control the viscosity of drill mud, chemicals are usually added . . . sodium phosphates as thinners, powdered ferrophosphorus to increase weight. Both chemicals are produced by Victor. Other Victor chemicals used in oil well drilling and petroleum refining include: **Alkyl Phosphates** (oil additives, stabilizers for gasoline), **Ferrophosphorus** (weighting drill mud), **Phosphoric Acid** (refining oil and gasoline), **Sodium Acid Pyrophosphate, Sodium Tripolyphosphate,** and **Tetrasodium Pyrophosphate** (conditioning drill mud), **Tripotassium Phosphate** (purifying gasoline).

VICTOR CHEMICAL WORKS 141 W. Jackson Blvd., Chicago 4, Ill.
NEW YORK • KANSAS CITY • ST. LOUIS • NASHVILLE • GREENSBORO, N. C.
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For FIFTY YEARS . . . VICTOR CHEMICALS FOR EVERYDAY LIVING

Milk powder, skimmed, roller, bulk, c.l..lb. .09¼- .10¼
spray, bulk, c.l.....lb. .10¼- .11¼
whole, roller, bbls., c.l....lb. No stocks.
spray, bbls., c.l.....lb. .34½- .36
Milk sugar, bbls., c.l., works.lb. .26 - —
l.c.l., works .....lb. .26½- .27¼
Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tanks..gal. .22 - .28
Molybdate orange (see Orange, molybdate).
Molybdenum metal, kgs., 90%, Mo. powd..lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content..lb. .56 - —
technical, kgs., works, basis Mo. content..lb. .80 - —
Monoamylamine, dms., c.l., works, basis 100%..lb. .61 - —
l.c.l., works, basis 100%...lb. .64 - —
Monochlorobenzene, dms., c.l., works, frt. equalized with comp. points..lb. .06 - .07½
l.c.l., works .....lb. .06½- .08½
tanks, works, frt. equalized with comp. points..lb. .05½- .06
smaller containers, works.. lb. .09 - .10
Monoethanolamine, dms., c.l., frt. alld. E..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Monoethylamine, dms., c.l., wks. basis 100%..lb. .17 - —
l.c.l., works, basis 100%..lb. .18 - —
tanks, basis 100%, works..lb. .15 - —
Monomethylamine, anhydrous, cyl., works, frt. alld. E. of Miss. basis 100%..lb. .32½- —
solution, dms., works, frt. alld. E. of Miss., basis 100%, lb. .37 - .43½
tanks, same basis.....lb. .32 - —
Monomethylpara-aminophenol sulphate, dms..lb. 2.40 - 2.90
Monosodium phosphate (see Soda phosphate, monobasic).
Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 ozs. .....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Hydrobromide, 5 ozs.....oz. 6.95 - —
cns., 25 ozs.....oz. 8.70 - —
Hydrochloride, bots., 5 ozs..oz. 9.00 - —
cns., 25 ozs.....oz. 8.75 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.75 - —
Morpholine, dms., l.c.l., works. lb. .67 - —
smaller containers, works...lb. .75 - —
Mullein leaves, cns.....lb. .12 - .13
Musk, nat., Tonquin grains, bots. oz.55.00 -60.00
synthetic, ambrette, cns..... 8.00 -14.25
ketone, cns., 100 lbs. or more. lb. 4.60 - 4.95
25 lbs. .....lb. 4.70 - 5.05
5 lbs. .....lb. 4.80 - 5.15
xylol, cns. .....lb. 1.60 - 1.80
25 lbs. .....lb. 1.70 - 1.90
5 lbs. .....lb. 1.80 - 2.00
tech., cns. .....lb. 1.10 - 1.20
Muskroot, bls. .....lb. No prices.
Mustard seed, Calif., brown, bgs. lb. .16 - .16½
yellow, bgs. .....lb. .21 Nom.
Danish, yellow, bgs.....lb. .18½- .19
Dutch, yellow, bgs.....lb. .22½- .23
Montana, brown, bgs.....lb. .16½- .17
yellow, bgs.....lb. .18 - .18½
futures, source.....lb. .16 - .16½
oriental, bgs. .....lb. .08 - .08½
futures, f.o.b. source...lb. .07 - .07½
Washington, yellow, bgs....lb. No prices.
Myrobalans, J1, good quality, ex dock..ton.47.00 - —
J2, same basis.....ton.43.00 - —

N

Naphtha painters (see Petroleum naphtha, V. M. & P.).
Solvents (see S).
Naphthalene, dom., crude, 74° bgs., c.l., frt. equald..lb. — - —
bbls., c.l., same basis..lb. — - —
tanks, same basis.....lb. .035 - .0475
78°, bgs., c.l., same basis.lb. — - —
bbls., c.l., same basis..lb. .0410- —
l.c.l., same basis.....lb. .0435- —
tanks, same basis.....lb. .0376- .05
Naphthalene, refined, balls, flakes, bbls., wholesalers and jobbers, c.l., works..lb. .09½- —
50-lb. cs., same basis....lb. .09¾- —
1-lb. pkgs., same basis..lb. .11 - —
Neocinchophen, USP, dms., works. lb. 7.00 - 7.10
Nepheline syenite, glass grade, 24 mesh, bulk, Rochester, N. Y..ton.13.75 - —
pottery grade, 200 mesh, bulk, Rochester, N. Y..ton.17.25 - —
Nepheline syenite in bgs. $2 per ton higher than bulk.
Nerolin, crys., cns.....lb. 1.70 - 2.00
Niacin (see Acid, nicotinic).
Nickel, carbonate, bbls.....lb. .39 - —
Chloride, bbls.....lb. .20 - —
Cyanide, bots., dms.....lb. 1.75 - 2.00
Metal, electro cathodes.....lb. .35½- —
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .14 - .14½
Nicotinamide, USP, dms., works. kilo.10.50 -10.80
Nicotine sulphate, 40%, dms., 50 lbs., to dealers, frt. allowed over 50 lbs..lb. .968 - —
tins, 10 lbs.....lb. 1.105 - —
Nikethamide, bots., cbys.....lb. 6.00 - 7.50
Nitercake, bulk, works.....ton.20.00 -24.00
Nitrobenzene, dbl. dist., dms., c.l. lb. .08½- .08¾
l.c.l. .....lb. .09½- .10
tanks .....lb. .07½- .07¾
Nitrocellulose, alcohol-soluble, ½ sec., 30-35 cps., bbls., works, dry weight..lb. .26 - —
5-6, 40-60 cps, same basis. lb. .27 - —
ester-soluble, 5-6, 15-16 cps. and higher, bbls., works, dry weight...lb. .20 - —
Nitrocellulose:—Denatured alcohol used in manufacture is charged extra. Barrels extra, but returnable.
Nitroethane, dms., works.....lb. .25 - —
Nitrogen solut., tanks.....ton.107.00 - —
Nitrogen solution prices are frt. alld. with Hopewell, Va., and Military, Kan.
Nitrogenous process tankage, bulk, works'..unit of ammo. 4.50 - 5.50
Sewage sludge, bulk, works.... unit of ammo. 4.15 + 40- —
Nitromethane, dms., c.l., works. lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane 1, dms., works..lb. .25 - —
2, dms., works.....lb. .25 - —
Nutgalls, bgs.....lb. .44 - .50
Nutmegs, West Indian, bgs...lb. .65 - .66
futures .....lb. .63 - .64
East Indian, bgs., futures....lb. .60 - .61
Nux vomica, bls.....lb. .09 - .10
powder, bbls., bxs.....lb. .12 - .13

O

Oakbark extract, 65% tannin, bbls., c.l. works..lb. No stocks
Octane, 100° C-140° C, industrial grade, dms., c.l., G. S..gal. .16 - —
l.c.l., G. S.....gal. .29 - —
10 gals., G. S.....gal. .55 - —
tanks, G. S.....gal. .13 - —
Octanol (see Alcohol, ethylhexyl).
Oil, almond, artificial (see Benzaldehyde).
Bitter, F.P.A., bots.....lb. 4.50 - 5.00
NF, bots.....lb. 4.90 - —
sweet, ex., dms., cns.....lb. .80 - 1.10
Angelica root, bots.....lb.40.00 -250.00
Seed, bots. .....lb.120.00 -200.00
Anilin (see A).
Anise, USP, Chinese, dms...lb. .80 - 1.00
Russian, cns. .....lb. 3.75 - —
Apricot kernel, cns.....lb. .65 - .85
Avocado, cns., dms.....lb. 1.00 - 1.10
Babassu, tanks.....lb. No prices
Bay, NF, Puerto Rican, 50-55%, cns...lb. 1.70 - 2.25
55-60%, cns.....lb. 1.75 - 2.35
60-65%, cns.....lb. 2.50 - —
West Indian, 50-55%, cns.lb. 1.35 - 1.65
Bergamot, artif., cns.....lb. 4.00 - —
natural, Italian, cns.....lb. 4.95 - 5.50
Birch (see Oil, sweet, birch).
Birchtar, crude, cns.....lb. No prices
rectified, cns. .....lb. No stocks
Bois de rose, Brazil, cns....lb. 4.10 - 5.75
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.60 - 3.20
redistilled, USP IX, cns....lb. 2.75 - 3.20
Calamus, cns. .....lb.22.00 -28.00
Camphor, white, nat., cns...lb. .20 - .75
synthetic, dms. .....lb. .15 - .35
Cananga, native, cns.....lb. 8.00 - 9.10
rectified, cns.....lb.12.00 12.60
Capsicum (see Capsicum oleoresin).
Oil, caraway, NF, cns.....lb. 5.50 - 6.50
Cardamom, bots. .....lb.26.50 -31.50
Cassia, USP, cns.....lb. 3.10 - 3.75
Castor, blown, ret. dms., c.l..lb. .32 - .32½
l.c.l. .....lb. .33 - .33½
cold-pressed, USP, ret. dms., c.l..lb. .30 - —
l.c.l. .....lb. .31 - —
tanks .....lb. .29 - —
dehydrated, bodied, dms., c.l. lb. .32¾- —
l.c.l. .....lb. .33½- —
tanks .....lb. .32 - —
unbodied, dms., c.l.....lb. .31¾- —
l.c.l. .....lb. .32½- —
unbodied, tanks .....lb. .31 - —
No. 3, tech., dms., c.l.....lb. .29¾- —
l.c.l. .....lb. .30¾- —
tanks .....lb. .28¾- —
sulphonated, 50% (48% fat), dms..lb. .16½- .17
75% (62-64% fat), dms....lb. .24 - .25
Cedarleaf, USP, cns., dms...lb. 2.35 - 2.65
Cedarwood, cns. .....lb. .85 - 1.05
dms. .....lb. .80 - 1.00
Celeryseed, bots. .....lb.16.50 -20.00
Chaulmoogra, NF, cns., dms.. lb. .56 - —
Chinawood (see Oil, tung).
Cinnamon bark oil, bots.....lb.40.00 -65.00
leaf, dms. .....lb. 1.85 - —
Citronella, Ceylon, cns.....lb. 1.70 - 2.70
Java, cns. .....lb. 3.75 - 4.75
Clove, USP, cns. .....lb. 1.40 - 1.60
Coconut, Ceylon type, tankcars, Atlantic ports..lb. .14½- .15
tankcars, Pac. Coast.....lb. .13½- .14
refined, Cochin type, tax incl., ret. dms., l.c.l..lb. .22½- —
deodorized, tax incl., ret. dms., l.c.l..lb. .23 - —
Cod, Newfoundland dms....gal. No prices
tanks .....gal. No prices
Codliver, USP, bbls., dms..gal. 2.40 - 3.50
Oil, coriander, bots.....lb.17.00 -22.00
Corn, crude, tanks, works....lb. .20½- —
refined, tanks, works.....lb. .24 - .24½
foots, acid, 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E..lb. .07 Nom.
Cottonseed, crude, tanks, works. lb. .21½- .22
deodorized, winterized, salad, dms., c.l..lb. .27 Nom.
l.c.l. .....lb. .28 Nom.
tankcars .....lb. .26 Nom.
foots, acid 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E. lb. .07 Nom.
Creosote (see C).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, cns. .....lb. 8.25 -10.00
Crude (see Petroleum, crude).
Cumin, bots. .....lb. 6.25 -11.50
Cypress, bots. .....lb.15.00 Nom.
Degras (see D).
Dillseed, bots. .....lb. 6.50 - 7.00
Dillweed, bots.....lb. 4.37 - 5.25
Dip (see D).
Erigeron, cns.....lb. 2.30 Nom.
Eucalyptus, USP, rect., 80-90%, cns..lb. 1.05 - 1.40
70-80%, cns. .....lb. .95 - 1.30
Fennel, sweet, cns.....lb. 3.75 - 4.55
Fir, Canada, cns..... .....lb. 2.50 - 2.75
Fishliver, 8,000-15,000 A units per gram, dms., per million units. .12 - —
15,000-30,000 units, dms., per million units. .13 - —
30,000-60,000 units, dms., per million units. .15 - —
60,000-100,000 units, dms., per million units. .20 - —
over 100,000 units, dms., per million units. .23 - —
concentrates, 200,000 or more A units per gram, dms., per million units. .36 - .40

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BEST SERVICE!
BEST BET!
BEST YET!

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Here's why!
Here's why!
Here's why!

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for the OIL and FAT INDUSTRIES

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SKELLY

SKELLYSOLVE

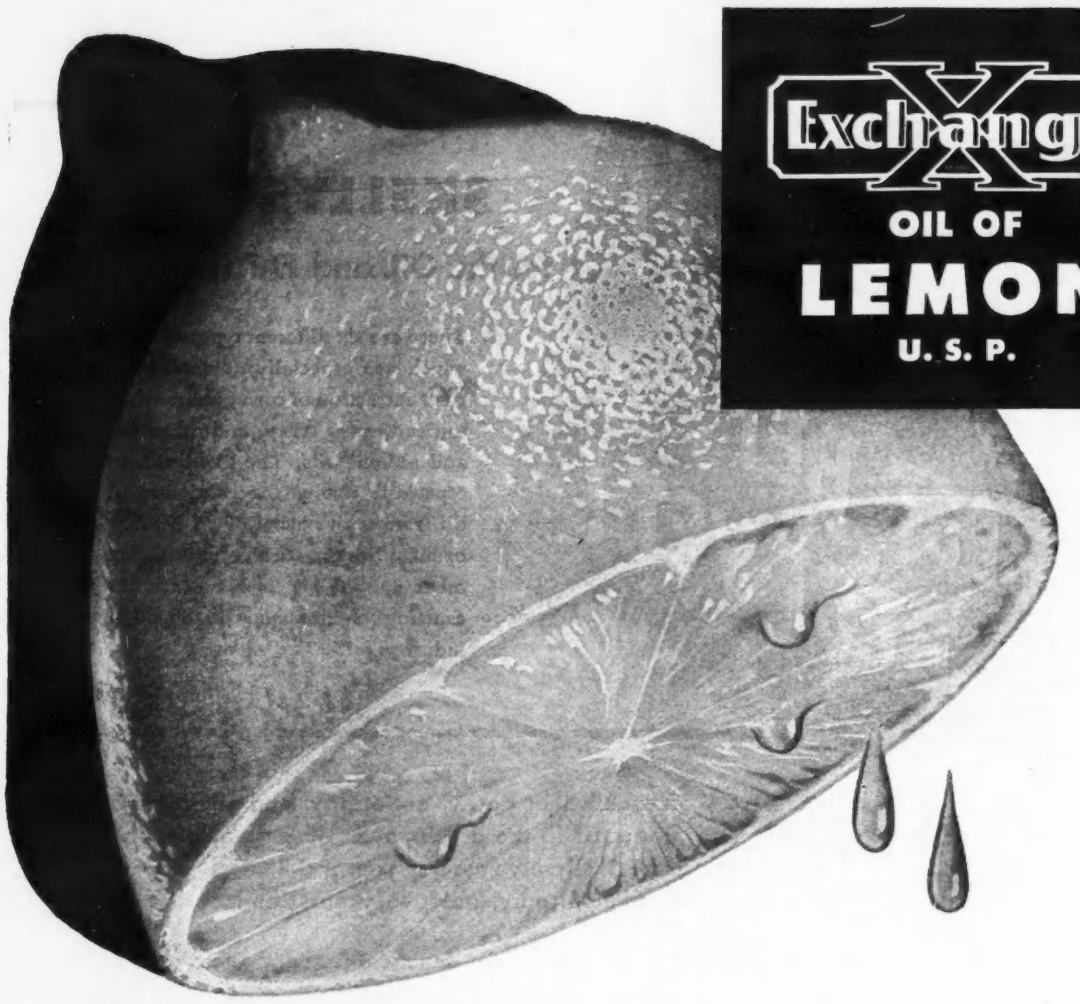
SOLVENTS DIVISION, SKELLY OIL COMPANY
SKELLY BLDG., KANSAS CITY, MISSOURI

Oil, fuel (see Petroleum, fuel oil).
Garlic, pure, bots. ..... oz. 15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns. .... lb. 19.00 -21.00
Bourbon, cns. ..... lb. 13.50 -17.50
Russian, cns. ..... lb. No stocks.
Turkish (see Oil, palmarosa).
Ginger, dist., bots. ..... lb. 9.50 -12.00
Grapefruit, Florida, cns. ..... lb. 2.25 - 2.30
California, bots., cns. ..... lb. 1.78 - 2.60
Grease, common, No. 1, dms., Chicago. ..... lb. .17½- —
prime, burning, dms., Chicago. ..... lb. .19½- —
Guaiacwood, cns. ..... lb. 2.50 - 3.80
Hemlock, cns. ..... lb. 2.65 - —
Herring, crude, tanks, Pac. coast. ..... lb. No prices.
Juniper berry, dom., bots. .... lb. 10.00 -12.50
imported, NF ..... lb. No stocks.
Juniper tar, USP (see Juniper Tar).
Juniper wood, tech., cns. .... lb. .83 - 1.00
Lard oil (see Oil, grease).
Laurel, bots. ..... lb. 20.00 Nom.
Lavandin, cns. ..... lb. 2.80 - 3.75
Lavender flower, French, 38-42% ster. ..... lb. 9.00 -10.50
30-32% ester ..... lb. 6.05 - 8.00
Russian, cns. ..... lb. No stocks.
Spike, Spanish, pure, cns. .. lb. 1.75 - 2.40
tech., cns. ..... lb. 1.05 - 2.50
Lemon, USP, Calif., cns. .... lb. 3.40 - 3.50
Messina, cns. ..... lb. 3.40 - 4.25
Terpeneless, bots. ..... lb. 40.00 -50.00
Lemongrass, cns., dms. ..... lb. 1.40 - 2.05
Lignaloe seed, Mexican, cns. .. lb. No stocks
Wood, Mexican, cns. ..... lb. 3.50 - 4.60
Brazilian (see Bois de Rose).
Lime, distilled, Mexican, cns. lb. 5.50 - —
West Indian, cns. ..... lb. 5.35 - 6.30
expressed, West Indian, cns. lb. 12.50 -13.50
Linseed, raw, dms., c.l. ..... lb. .3340- —
l.c.l. ..... lb. .34 - .34½
tankcars ..... lb. .3240- —
tankwagon ..... lb. .3260- —
Boiled linseed oil, .007 higher than raw.

Oil, linseed replacement, dms., c.l. .. lb. .3320- —
l.c.l. ..... lb. .3360- .3420
tankcars ..... lb. .3220 - —
Lubricating, at refinery, ex tax, California, neutral, pale, 200-800 vis., 2¼-5 pour, tanks .. gal. .07¼- .11
red, 200-900 vis., 4-6½ pour, plus tanks .. gal. .07¼- .11¼
Group 3, bright stock, 150-160 vis., 0.25 pour, tanks, gal. .23 - .25
neutral, 300 vis., No. 3, col., 0.10 pour, tanks .. gal. .18½- .19
200-300 vis., No. 3, col., 15-25 pour, tanks. gal. .16 - .18
145-155 vis., No. 3, color, 10-25 pour, tanks .. gal. .26 - .31
cylinder, oils, 600-630 flash, tanks .. gal. .17 - .19
600-650 steam, refd., tanks .. gal. .15½- .20
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks .. gal. .26 - .36
200 vis., 25 pour, tanks, gal. .28 - .38
Mace, dist., cns., dms. ..... lb. 7.75 - 8.50
Mineral, white (see Oil, white).
Mandarin, Brazilian, cns. .... lb. 8.00 - 8.40
Italian, cns. ..... lb 10.00 - —
Menhaden, crude, tanks, Balto. lb. No prices
refined, alkali, dms., l.c.l. .. lb. .24½- —
kettle-bodied, dms., l.c.l. .. lb. .26 - —
light-pressed, dms., l.c.l. .. lb. .23 - —
tanks ..... lb. .22 - —
Mustard, artif., USP, cns. .... lb. 1.45 - 1.65
Seed, exp., dms., c.l. ..... lb. .30 - —
Neatsfoot, 15°, ret. dms., works. lb. .48 Nom.
20°, ret. dms., works ..... lb. .46 Nom
30°, ret. dms., works ..... lb. .45 Nom.

Oil, neroli, French, bots. ..... lb. 160.00 -390.00
Haitian, bots. ..... lb. 180.00 -200.00
Nutmeg, cns. ..... lb. 7.50 - 8.75
Ocotea symbarum, dms. ..... lb. .90 - 1.15
Oiticica, liquid, tankcars .... lb. .22 Nom.
dms., carlots ..... lb. .24 Nom.
l.c.l. ..... lb. .26 Nom.
Oleo, extra, tcs., Chicago .... lb. .19 Nom.
Olibanum, bots. ..... lb. 5.00 - 6.25
extra, tins ..... lb. 6.25 -10.50
Olive, denat., dms. ..... gal. No stocks
edible, Calif., dms. ..... gal. 6.00 - —
imported, dms. ..... gal. 6.75 - —
foots, dms., c.l. ..... lb. No prices
tankcars ..... lb. No prices
sulphonated, 50% (40% fat), dms., c.l. .. lb. No stocks
l.c.l. ..... lb. No stocks
80% (68% fat), dms., c.l. .. lb. No stocks
l.c.l. ..... lb. No stocks
85% (68% fat), dms., c.l. lb. No stocks
l.c.l. ..... lb. No stocks
Orange, sweet, dist., cns. ..... lb. .80 - 1.25
expressed, USP, Brazilian, cns. .. lb. 1.15 - 1.70
Calif., cns. ..... lb. 1.75 - 2.10
Florida, cns., dms. ..... lb. 1.30 - 1.75
Messina, coppers ..... lb. 4.50 - 4.75
West Indian, cns. ..... lb. 2.75 - 3.75
sesquiterpeneless, bots. .... lb. 80.00 -135.00
Origanum, Spanish, cs. ..... lb. 3.25 - 3.50
Palm, Niger, dms. ..... lb. No prices
Palmarosa, cns. ..... lb. 7.25 - 9.00
Palmkernel, crude, bulk, c.i.f., N. Y. .. lb. No prices
Paraffin, 300° flash, 100-110 vis., tanks, G.3. .. gal. .05¾- —
320° flash, 60-70 vis., tanks, G.3. .. gal. .05¼- —
350° flash, 70-80 @ 100 vis., 0/10 pour, G.3. .. gal. .06 - —
80-85 vis., 0/10 pour, bbls., extra, Ind. ref'y .. gal. .12 - —
100-110 vis., 0/10 pour, same basis .. gal. .08½- —
10/25 pour, same basis. gal. .08¼- —

Oil, patchouli, imported, cns. lb. 22.00 -23.00
Peanut, crude, tanks, works .. lb. .23 - —
foots, acid, 95%, tanks, dlvd. E. .. lb. .14 Nom.
raw, 50%, tanks, dlvd. E. lb. .07 Nom.
refined, tanks, mills ..... lb. .23 Nom.
Pennyroyal, dom., dms., cns. lb. 3.85 - 3.95
import, cns. ..... lb. 4.05 - 5.00
Peppermint, natural, dms. .. lb. 8.00 - 8.70
redist., USP, dms. ..... lb. 8.40 - 9.00
Perilla, crude, dms. ..... lb. No stocks
Petitgrain, Paraguay, cns. .. lb. 3.10 - 4.30
Pimento, berry, dms. ..... lb. 4.25 - 6.50
Leaf, cns. ..... lb. 2.35 - 3.75
Pine, destructive dist., dms., c.l., extra, wks., South. gal. .67 - —
l.c.l., same basis .... gal. .68 - —
tanks, wks., South .... gal. .61 - —
steam-dist., dms., dlvd. E. gal. .88 - —
Pineneedle, cns. ..... lb. 3.55 - 3.70
Putty, petroleum, heavy, dms. gal. .18 - —
tankwagon ..... gal. .13½- —
light, dms. ..... gal. .16½- —
tankwagon ..... gal. .12½- —
Rapeseed, dms., c.l. ..... lb. No prices
Red, single dist., ret. dms. .. lb. .21¾- .22¾
tankcars ..... lb. .20½- —
double dist., ret. dms. ..... lb. .24¼- .25¼
tankcars ..... lb. .23 - —
Rose, natural, coppers ..... oz. 36.00 -42.00
Rosemary, Spanish, tech., cns., dms. .. lb. 1.00 - 1.50
USP, cns., dms. ..... lb. 1.40 - 1.60
Rosin, 1st rectified, dms. .... gal. .06 - —
2d rectified, dms. ..... gal. .08 - —
3d rectified, dms. ..... gal. .78 - —
Rue, bots. ..... lb. 4.90 - 5.50
Sage, Dalmatian, cns. ..... lb. 6.25 - 6.50
Spanish, cns. ..... lb. 2.50 - 3.00
Sandalwood, NF, Mysore, cns., case lots .. lb. 14.00 -22.50
Sardine, crude, tanks, Pac. coast. .. lb. No prices
refined, alkali, dms., l.c.l. .. lb. .24½- —
kettle-bodied, dms., l.c.l. .. lb. .26 - —
light-pressed, dms., l.c.l. .. lb. .23 - —
tanks ..... lb. .22 - —
Sassafras, artificial ..... lb. .85 - 1.10
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP XII, cns., dms. .. lb. 1.95 - 2.30
Savin, cns. ..... lb. 5.75 - 9.00
Savory, cns. ..... lb. 8.00 - —
Seal, No. 1, tanks, U.S. ports. lb. No prices
Sesame, tanks ..... lb. No prices
Shingle stain, bbls., c.l., works, gal. .2135- —
l.c.l., works ..... gal. .25 - .29
tanks, works ..... gal. .15 - .16
Snakeroot, Canada, cns. .... lb. 22.00 - —
Soybean, crude, tankcars, mills, lb. .19½- .20
refined, alkali, dms., c.l. .... lb. .2483- —
l.c.l. ..... lb. .2520- —
tankcars ..... lb. .2383- —
clarified, dms., c.l. ..... lb. .2313- —
l.c.l. ..... lb. .2350- —
tankcars ..... lb. .2213- —
winterized, ref., tankcars .. lb. .23 Nom.
foots, acid, 95%, tanks, dlvd. E. .. lb. .14 Nom.
raw, 50%, tanks, dlvd. E. lb. .07 Nom.
Spearmint, dms. ..... lb. 13.25 -14.75
Sperm, bleached, 38°, dms. ... lb. No prices
natural, 45°, dms. ..... lb. No prices
Spruce, cns., dms. ..... lb. 2.40 - 2.65
Sunflower, imported, refined, tanks .. lb. No prices.
semi-refined, tanks ..... lb. No prices.
Sweet birch, North, cns. ..... lb. 5.85 - 8.00
South, cns. ..... lb. 2.60 - 3.25
Tall, crude, tankcars, works, ton. 90.00 Nom.
refined, dms., c.l., works .. lb. .07¾- —
l.c.l., works ..... lb. .08¼- —
tanks, works ..... lb. .06¾- —
Tallow, acidless, dms., Chicago. lb. .19½ Nom.
Tansy, cns. ..... lb. 14.00 - —
Tar, pine, crude, dms., extra, c.l., works, South .. gal. .36½- —
l.c.l., works, South .... gal. .38½- —
tanks, works, South .... gal. .30½- —
rectified, USP, l.c.l., dms. extra, wks., South .. gal. .57 - —
Tar acid (see T).
Thyme, red, NF, cns. ..... lb. 2.50 - 3.25
white, cns. ..... lb. 2.95 - 3.60
technical, cns. ..... lb. .93 - —
Tung, dms., c.l. ..... lb. .26½- .26¾
l.c.l. ..... lb. .27 - .27½
tankcars ..... lb. .25 - —
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, USP, cns., dms. .. lb. .30 - .39
Vetiver, Bourbon, cns. ..... lb. 30.00 -38.00
Haitian ..... lb. 31.00 -33.00
Whale, ref., natural, dms. ... lb. No stocks.
Winter bleached, dms. ..... lb. No stocks.
Wheat germ, dms. ..... gal. 10.00 -13.50
White, mineral, tech., f.o.b., N. Y., 50-60 vis., dms., incl., c.l. .. gal. .42 - —
l.c.l. ..... gal. .44 - .48
65-75 vis., dms., dms. incl., c.l. .. gal. .45 - —
l.c.l. ..... gal. .47 - .52
USP, 80/90 vis., dms., dms. incl., c.l. .. gal. .40 - —
l.c.l. ..... gal. .51 - .56
125/135 vis., dms., dms. incl., c.l. .. gal. .61 - —
l.c.l. ..... gal. .64 - .68
145/155 vis., dms., dms. incl., c.l. .. gal. .63 - —
l.c.l. ..... gal. .66 - .70
175/185 vis., dms., dms. incl. c.l. .. gal. .66 - —
l.c.l. ..... gal. .68 - .73
200/210 vis., dms., dms. incl., c.l. .. gal. .70 - —
l.c.l. ..... gal. .73 - .77
335/345 vis., dms., incl., c.l. gal. .78 - —
l.c.l. ..... gal. .80 - .85
55, 70 and 85 vis., non-ret. dms., San Francisco. gal. .45 - —
smaller lots, same basis. gal. .47 - .50
100 vis., non-ret. dms., 65 dms., San Francisco. gal. .56½- —
smaller lots, same basis. gal. .57½- .61½
145 vis., non-ret. dms., 65 dms., San Francisco. gal. .64 - —
smaller lots, same basis. gal. .66 - .68
150 vis., non-ret. dms., 65 dms., San Francisco. gal. .69½- —
smaller lots, same basis. gal. .71½- .74½
240 vis., non-ret. dms., 65 dms., San Francisco. gal. .81 - —
smaller lots, same basis. gal. .83 - .86
Wintergreen, natural, North, cns. .. lb. 7.00 -17.25
South, cns. ..... lb. 3.65 - 6.00
Synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, NF, cns. ..... lb. 4.90 - 5.50
Wormwood, cns. ..... lb. 11.25 -11.50
Ylang-ylang, Bourbon, extra, bots. .. lb. 15.50 -25.00
first, bots. ..... lb. 12.50 -14.50
second, bots. ..... lb. 8.00 - 9.50
third, bots. ..... lb. 5.00 - 7.50



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When it's *lemon* you want, Exchange is the Oil!

More than 80% of all the lemon oil used in the United States is Exchange Lemon Oil. This overwhelming endorsement by the trade is your assurance that Exchange Lemon Oil delivers *flavor . . . clarity* and *uniformity* not found in any other Lemon Oil.

Always specify it by the brand name when you order — Exchange Oil of Lemon. And to insure your satisfaction, accept no other brand.

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Distributors for:
CALIFORNIA FRUIT GROWERS EXCHANGE
PRODUCTS DEPARTMENT, ONTARIO, CALIF.

Producing Plant:
EXCHANGE LEMON PRODUCTS CO., CORONA, CALIF.

Oleostearin, loose	lb.	.17	Nom.
Olivine, aggregate, c.l., mines	ton.	7.00	- 9.50
crushed, 8 mesh, bulk, c.l., works	ton.	10.00	- —
paper bgs., c.l., works	ton.	12.00	- —
lumps, paper bgs., c.l., works	ton.	7.00	- —
Opium, USP, cns	lb.	21.30	-21.55
gran.	lb.	22.70	-29.95
powd.	lb.	22.70	-29.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies	lb.	1.00	- —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., incluD. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts	lb.	.24	- —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas, Tex., Ft. Worth, Tex., 1½c.; El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.			
Dinitroaniline toner	lb.	1.15	- —
Molybdate, bbls	lb.	.38	- —
Orthonitroaniln toner, bbls., kgs., works	lb.	1.05	- 1.15
Persian, bbls.	lb.	.30	- .45
Orange mineral, American, bbls., 5 tons, f.o.b. ship't point, frt. allD.	lb.	.20½	- —
smaller lots, bbls., f.o.b. ship't point, frt. allD.	lb.	.21	- —
Orange flowers, bls.	lb.	.46	- .55
Orange peel, bitter, Haitian, bls.	lb.	.13	- .14
Sweet, bls.	lb.	.14	- .16
Oregano, Italian, bgs.	lb.	.27	- .27½
Mexican, bgs.	lb.	.16	- .16½
Portuguese, bgs.	lb.	.19½	- .20
Orris root, Florentine, bls.	lb.	.34	- .35
Verona, bls.	lb.	.22	- .23
Orthoamylphenol, dms., works	lb.	.27	- —
Orthoanisidin, bbls.	lb.	.70	- —
Orthochloroaniln, dms.	lb.	.60	- —
Orthochlorophenol, dms.	lb.	.25	- .31
Orthocresol, 30.4° C., min., M.P., dms., c.l., works	lb.	.24	- .24½
l.c.l., works	lb.	.24½	- .25
20° C., mn., M.P., dms., c.l., works	lb.	.23	- —
l.c.l., works	lb.	.23½	- —
Orthodichlorobenzene, dms., c.l., works, frt. allD. E. of Rockies	lb.	.07½	- .08
l.c.l., same basis	lb.	.09½	- .10½
tanks, same basis	lb.	.07	- —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.			
Orthonitroaniln, dms.	lb.	.43	- .55
Orthonitrochlorobenzene, dms.	lb.	.15	- .18
Orthonitrodiphenyl, tech., grade A., dms., c.l., works	lb.	.10	- —
l.c.l., works	lb.	.11	- —
grade B, dms., c.l., works	lb.	.06	- —
l.c.l., works	lb.	.07	- —
Orthonitroparachlorophenol, cns.	lb.	.75	- —
Orthonitrotoluene, dms.	lb.	.08	- .09
Orthophenetidin, dms.	lb.	.90	- —
Orthotoluidin, dms.	lb.	.18	- .21
Osage orange crystals, bbls.	lb.	.32	- —
extract, No. 1, bbls.	lb.	.15	- —
Ouabaine, USP, bots.	gram.	3.00	- 4.00
Oxyquinolin sulphate, cns., 100 lbs., works	lb.	6.40	- —
small lots, works	lb.	6.55	- 7.40

P

Papain, powd, cs.	lb.	5.75	- 6.00
Papaverine, natural or synthetic, hydrochloride, NF, cns., 1,000-oz. lots	oz.	7.00	- —
smaller lots	oz.	7.25	- 7.60
Sulphate, cns.	oz.	7.10	- 7.35
Paprika, Chilean, bgs.	lb.	.32	- .32½
Portuguese, bgs.	lb.	.39	- .40
Spanish, bgs.	lb.	.45	- .47
Para-anisidin, dms., works	lb.	.75	- —
Parachlorophenol, dms., c.l., works.	lb.	.25	- —
l.c.l., same basis	lb.	.27½	- .29
Paracresol, bots., works	lb.	.41	- .50
Paracymene, dms., c.l., works.	lb.	.1595	- —
l.c.l., same basis	lb.	.1645	- —
tanks, same basis	lb.	.1545	- —
Paradichlorobenzene, dms., c.l., works	lb.	.12½	- —
l.c.l., same basis	lb.	.14	- —
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery	lb.	.06	- .06¼
fully ref'd slabs, loose, 117-119 ASTM, c.l., refinery	lb.	.05	- —
123-125 ASTM, refinery	lb.	.0610	- .0645
125-127 ASTM, refinery	lb.	.0610	- .0655
128-130 ASTM, refinery	lb.	.0640	- .0675
130-132 ASTM, refinery	lb.	.0665	- —
133-135 ASTM, refinery	lb.	.0695	- .0710
135-137 ASTM, refinery	lb.	.0720	- —
Prices in bags 4/10c. lb. higher.			
Paraformaldehyde, dms., 1,000 lbs. or more, works	lb.	.21	- —
smaller lots, works	lb.	.22	- —
Paraldehyde, tech., 98%, 55 and 110-gal. dms., l.c.l., wks.	lb.	.13	- —
10-gal. dms., works	lb.	.16	- —
USP, cbys	lb.	.49	- .62
Paranitroanilin, kgs., works	lb.	.41	- .43
Paranitrochlorobenzene, kgs., wks.	lb.	.15	- —
Paranitrophenol, kgs.	lb.	.35	- —
Paranitrotoluene, kgs., works	lb.	.30	- —
Paraphenylenediamine, tech., kgs.	lb.	1.25	- —
Paratoluenesulphonamide, bbls.	lb.	.70	- —
Paratoluidin, bbls., works	lb.	.44	- .53
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. allD. East	lb.	.31	- —
l.c.l., same basis	lb.	.32	- .33
Passion flower herb, bls.	lb.	.35	- .40
Patchouli leaves, bls.	lb.	.38	- .40
Pectin, bbls.	lb.	1.25	- —
Penicillin, amorph., calcium, bulk, 1,000,000,000 units			
100,000 units		.19	- —
sodium, bots. 100,000 units		.25	- —
cryst., sodium, bots. 100,000 units		.27	- —
bulk, 1,000,000,000 units			
100,000 units		.21	- —
Pennyroyal leaves, bls.	lb.	.24	- .25
Pentachlorophenol, dms., works	lb.	.20	- .25
Pentaerythritol, tech., bbls., c.l., works	lb.	.32	- —
l.c.l., works	lb.	.34	- .36
Pentane, 28°-38° C., industrial grade, dms., c.l., Group 3	gal.	.11	- .14
l.c.l., dms., Group 3	gal.	.17	- .20
tanks, Group 3	gal.	.07½	- .08
28°-38° C., laboratory grade, 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3	gal.	.16	- —
l.c.l., Group 3	gal.	.29	- —
Pepper, black, bgs.	lb.	.31	- .32
futures, bgs.	lb.	.31	- .32
Red, capsicum, Louisiana, longs, bgs., shipment point	lb.	.20	- .21
sports, bgs.	lb.	No stocks	
Mombassa, bgs.	lb.	.39	- .40
Niger, bgs.	lb.	.23½	- .24
Sierra Leone, futures	lb.	.27	- .28
Chillies, Haitian, bgs.	lb.	.56	- .57
Mexican, long	lb.	.50	- .51
White, bgs.	lb.	.43	- .44
Peppermint, dom., USP, bls.	lb.	.90	- .95
imported, USP, bls.	lb.	.96	- 1.00
Perchloroethylene, dms., c.l., Zone 1, works, frt. allD.	lb.	.10¼	- —
Zone 2, same basis	lb.	.10¾	- —
Zone 3, same basis	lb.	.11¼	- —
Zone 4, same basis	lb.	.11¾	- —
l.c.l., Zone 1, same basis	lb.	.10¾	- —
Zone 2, same basis	lb.	.11¼	- —
Zone 3, same basis	lb.	.11¾	- —
Zone 4, same basis	lb.	.11¾	- —
tanks, Zone 1, works, same basis	lb.	.09¾	- —
Zone 2, same basis	lb.	.10¼	- —
Zone 3, same basis	lb.	.10¾	- —
Zone 4, same basis	lb.	.10¾	- —
Perchlorethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.			
Peru balsam, dms.	lb.	1.05	- 1.10
Petrolatum, tech., dark, bbls., c.l., Group 3	lb.	.021	- —
Pennsylvania refy	lb.	.045	- —
golden topaz, bbls., c.l.	lb.	.032	- —
l.c.l.	lb.	.036	- —
red, veterinarian, bbls., c.l.	lb.	.024	- —
l.c.l.	lb.	.028	- —
Petrolatum, USP, amber, non-ret., dms., c.l.	lb.	.05	- —
Pennsylvania refy	lb.	.04875	- —
l.c.l.	lb.	.06	- —
California	lb.	.08	- —
extra, amber, dms., c.l.	lb.	.05½	- —
l.c.l.	lb.	.06½	- —
cream, c.l., dms.	lb.	.07	- —
l.c.l.	lb.	.08½	- —
white, lily, dms., c.l.	lb.	.07½	- —
l.c.l.	lb.	.08¾	- —
snow, dms., c.l.	lb.	.08¼	- —
Pennsylvania refy	lb.	.08125	- —
l.c.l.	lb.	.09¾	- —
California	lb.	.1175	- —
soft, dms., c.l.	lb.	.07½	- —
Pennsylvania refy	lb.	.07125	- —
l.c.l.	lb.	.08½	- —
California	lb.	.1075	- —
yellow, soft, dms., c.l.	lb.	.05½	- —
Pennsylvania refy	lb.	.04875	- —
l.c.l.	lb.	.06½	- —
California	lb.	.08	- —
Petroleum, crude, bulk, at wells, California, heavy grades	bbl.	1.53	- 2.14
Illinois	bbl.	1.95	- 2.07
Kentucky, Union County	bbl.	1.97	- 2.02
Louisiana-Arkansas	bbl.	1.63	- 2.09
Montana	bbl.	1.55	- 1.95
Oklahoma-Kansas	bbl.	1.53	- 1.95
Pennsylvania, lower field	bbl.	3.87	- 4.05
Upper field	bbl.	1.86	- 3.40
Texas, East	bbl.	1.65	- 1.95
Gulf coast	bbl.	1.76	- 2.06
North, North-Central	bbl.	1.53	- 1.95
Panhandle	bbl.	1.53	- 1.95
West	bbl.	1.40	- 1.82
Wyoming	bbl.	1.55	- 1.95
Petroleum, ether, laboratory grade, 30°-60° C, 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3	gal.	.16	- —
l.c.l., same basis	gal.	.29	- —
35°-60° C, 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3	gal.	.16	- —
l.c.l., same basis	gal.	.29	- —
40°-75° C, 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3	gal.	.16	- —
l.c.l., same basis	gal.	.29	- —
Fuel oil, furnace, tanks, at refinery, Arkansas, No. 2	gal.	.06125	- —
No. 3	gal.	.06	- —
Bayonne, No. 2, tanks	gal.	.068	- —
California, heavy	bbl.	1.50	- 1.55
light	bbl.	1.70	- 1.75
diesel	gal.	.0745	- .0795
Group 3, No. 1	gal.	.06375	- .06625
No. 2, straw	gal.	.06125	- .06375
No. 3	gal.	.06	- .06125
Oklahoma, No. 1, p.w.	gal.	.06125	- .07
No. 1, straw	gal.	.06625	- —
No. 2, straw	gal.	.06125	- .065
No. 3	gal.	.06125	- —
No. 6	bbl.	1.64	- 2.50
range	gal.	.065	- .0675
Pennsylvania, No. 1	lb.	.0775	- —
No. 2	gal.	.07625	- .077
No. 3	gal.	.077	- —
36-40 gravity	gal.	.075	- —
Bunker C (No. 6), tanks, Albany, N. Y.	bbl.	2.42	- —
Baltimore, Md.	bbl.	2.22	- 2.32
Boston, Mass.	bbl.	2.26½	- 2.36½
Charleston, S. C.	bbl.	2.13	- —
Jacksonville, Fla.	bbl.	2.06	- 2.18
New York, N. Y.	bbl.	2.22	- 2.32
Norfolk, Va.	bbl.	2.18	- 2.28
Philadelphia, Pa.	bbl.	2.22	- 2.27
Portland, Me.	bbl.	2.26½	- 2.36½
Providence, R. I.	bbl.	2.23½	- —
Savannah, Ga.	bbl.	2.13	- 2.23

FROM SHELL CHEMICAL

GLYCEROL DICHLOROHYDRIN

An hydroxyl-substituted, halogenated, aliphatic compound

APPROXIMATE COMPOSITION	
70%	2, 3-Dichloropropanol-1 ($CH_2Cl.CHCl.CH_2OH$)
30%	1, 3-Dichloropropanol-2 ($CH_2Cl.CHOH.CH_2Cl$)

PHYSICAL PROPERTIES	2, 3 Isomer	1, 3 Isomer
Molecular wt.	128.99	128.99
B.P. °C at 760 mm	182	175
Spec. Grav. 20/4°C	1.3616	1.3645
Refr. Index 20/D	1.48491	1.48375

TYPICAL PROPERTIES OF COMMERCIAL MIXTURE	
Spec. Grav. 20/20	1.362-1.366
Refr. Index 20/D	1.4838-1.4848
Flash Open Cup	200°F
Solub. at 20° C in: Water	14%/w
Octane	5%/w
Acetone	∞
Toluene	∞

Among the many other Shell Chemical products are: Epichlorohydrin, Diisobutylene, Diacetone Alcohol, Acetone, and Methyl Isobutyl Ketone

NOW IN COMMERCIAL PRODUCTION

Glycerol Dichlorohydrin may react either through its two reactive carbon-to-chlorine bonds or through its reactive hydroxyl group to produce a variety of glyceryl derivatives. The tri-functional character suggests its use as a chemical intermediate.

THE FOLLOWING ORGANIC REACTIONS ARE TYPICAL:

Replacement of Cl by SR, OR, Br, NH_2, NHR, NR_2, OH, CN, OCOR

Esterification of the hydroxyl group by organic and inorganic acids

This product should be of interest to manufacturers of plastics, dyes, fine chemicals, surface-active agents, elastomers, films and filaments, pharmaceuticals, and adhesives.

A request on your business letterhead will bring a data sheet and free sample if desired.

SHELL CHEMICAL CORPORATION

100 Bush Street, San Francisco 6 • 500 Fifth Avenue, New York 18
Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit

Petroleum, lacquer, diluent, California, 100 i.b.n., 200 c.p., tanks, dlvd. Los Angeles, gal.	.118 -	—
Seattle, Wash. .....gal.	.128 -	—
East Coast, N. J., N. Y., tanks, refinery..gal.	.13 -	—
Group 3, benzol type, tanks, gal.	.09½-	—
toluol type, tanks.....gal.	.09½-	—
San Francisco .....gal.	.11½-	—
Portland, Ore. .....gal.	.128 -	—
Mineral spirits, California, San Francisco, 170-250 b.r., tanks..gal.	.123 -	—
205-290 b.r., tanks..gal.	.123 -	—
244-302 b.r., tanks..gal.	.123 -	—
307-360 b.r., tanks..gal.	.113 -	—
313-402 b.r., tanks..gal.	.113 -	—
362-458 b.r., tanks..gal.	.113 -	—
East Coast, N. J., N. Y., tanks, refinery..gal.	.12½-	—
Group 3, tanks, refinery.gal.	.07⅞-	.08⅛
Gulf coast, tanks.....gal.	.07⅞-	—
tankwagon, Baltimore.....gal.	.15 -	—
Boston .....gal.	.13½-	—
Buffalo .....gal.	.14 -	—
Camden, N. J.....gal.	.12½-	—
Chicago .....gal.	.159 -	—
Detroit .....gal.	.182 -	—
Kansas City, Mo.....gal.	.15½-	—
Lancaster, Pa.....gal.	.18½-	—
Newark .....gal.	.12½-	—
New York.....gal.	.12½-	—
Philadelphia .....gal.	.12¼-	—
Pittsburgh .....gal.	.14 -	—
Providence .....gal.	.14 -	—
Rochester .....gal.	.15 -	—
St. Louis.....gal.	.161 -	—
Syracuse .....gal.	.16 -	—
Washington, D. C.....gal.	.15 -	—
Petroleum, naphtha, cleaners, California, tanks, San Francisco..gal.	.123 -	—
East coast, N. J., N. Y., tanks, refinery..gal.	.11 -	—
Group 3, tanks, refinery.gal.	.06⅞-	.09⅛
tankwagon, Newark....gal.	.06½-	—
Chicago .....gal.	.14¼-	—
Detroit .....gal.	.15½-	—
New York.....gal.	.12 -	—
Philadelphia .....gal.	.125 -	—
St. Louis.....gal.	.1470-	—
high flash, 140° F, Group 3 refinery, tanks..gal.	.12 -	.12½
high-solvency, No. A, tanks, Cartaret, N. J..gal.	.18 -	—
No. B, tanks, same basis. gal.	.19½-	—
No. D-F, tanks, same basis. gal.	.20 -	—
No. A-80, tanks, Carteret, N. J..gal.	.20 -	—
No. B-90, tanks, Carteret, N. J..gal.	.21½-	—
No. F-80, tanks, Carteret, N. J..gal.	.24 -	—
V.M.&P., at refinery, 46.5, 254 i.b.p., 380 e.p., tanks, El Segundo..gal.	.12 -	—
Richmond .....gal.	.12½-	—
Portland, Ore., Seattle, Wash..gal.	.12 -	—
California, 64-77, 190 i.b.p., 310 e.p., Los Angeles.. gal.	.11 -	—
San Francisco.....gal.	.11½-	—
Portland, Seattle...gal.	.12 -	—
E. Coast, N. J., N. Y., tanks, refinery..gal.	.12¼-	—
Group 3, tanks.....gal.	.06⅞-	.09⅛
Gulf Coast (dlvd. New Orleans), tanks..gal.	.10 -	-
Petroleum, naphtha, V.M.&P., tankwagon, Boston.....gal.	.145 -	—
Chicago .....gal.	.162 -	—
Detroit .....gal.	.174 -	—
Milwaukee .....gal.	.178 -	—
Minneapolis .....gal.	.176 -	—
Newark .....gal.	.14 -	—
New York.....gal.	.135 -	—
Philadelphia .....gal.	.14 -	—
Pittsburgh .....gal.	.15 -	—
St. Louis.....gal.	.171 -	—
Solvent, rubber, at refinery, California, San Francisco, tanks..gal.	.11½-	—
East Coast, N. J., N. Y., tanks..gal.	.12½-	—
Group 3, tanks.....gal.	.08625-	.09125
Stoddard (C.S. 6-88), at refinery:— California (San Francisco), tanks..gal.	.12 -	—
East Coast, N. J., N. Y., tanks..gal.	.11½-	—
Group 3, tanks.....gal.	.08⅛-	.08⅝
Pennsylvania, western, tanks..gal.	.09 -	.09¼
tankwagons, Boston.....gal.	.13 -	—
Chicago .....gal.	.14½-	—
Detroit .....gal.	.16½-	—
Milwaukee .....gal.	.15½-	—
Minneapolis .....gal.	.1540-	—
Newark .....gal.	.13½-	—
New York..gal.	.12½-	—
Philadelphia .....gal.	.12⅛-	—
Pittsburgh .....gal.	.13 -	—
St. Louis .....gal.	.14¼-	—
Syracuse .....gal.	.15⅛-	—
Sulphonates, 68% sulphonic content, ret. dms., c.l., wks. lb.	.09⅝-	—
l.c.l., works .....lb.	.09⅞-	.10¼
50% sulphonic content, ret. dms., c.l., works.lb.	.09⅝-	—
l.c.l., works .....lb.	.09⅞-	.10¼
tanks, works .....lb.	.09½-	—
Phenobarbital, dms., 100 lbs...lb.	3.50	- 4.50
Phenol, 90-92% (cresol, 8-10%), dms., c.l., wks., frt. equald. lb.	.11⅝-	.12¼
l.c.l., same basis.....lb.	.12½-	—
tanks, same basis.....lb.	.10½-	.11¼
82-84% (cresol, 16-18%), dms., c.l., same basis..lb.	.11½-	.12
l.c.l., same basis.....lb.	.12½-	.12⅝
tanks, same basis.....lb.	.11 -	—
USP, dms., c.l., same basis.lb.	.11¼-	.18
l.c.l., same basis....lb.	.13 -	.13¼
tanks, same basis.....lb.	.10¼-	.11⅝
Phenolphthalein, USP, bbls., dms., 2,000 lbs..lb.	.85 -	—
smaller lots .....lb.	.87 -	.92
Yellow, fib. dms., 2,000 lbs..lb.	.80 -	—
smaller lots .....lb.	.82 -	.87
Phenothiazin, NF, fib. dms., ton lots or more, works..lb.	.49 -	—
smaller lots, works.....lb.	.54 -	—
Phenylacetaldehyde solution, 50%, bots..lb.	2.35	- 2.70
pure, bots. .....lb.	4.00	- 4.40
Phenylethyl acetate, dms.....lb.	2.40	- 3.65
Phenylethylphenyl acetate, bots. lb.	5.15	- 7.50
Phenylhydrazin base, CP, bots.lb.	4.55	- —
Hydrochloride, CP, bots., works. lb.	7.10	- —
commercial, kgs., works...lb.	1.75	- —
Phloroglucinol, CP, fib. dms...lb.	13.75	-14.75
tech., fib. dms.....lb.	12.00	-12.55
Phosgene, 150-lb. cyls., works..lb.	.20½-	.35
10-lb. cyls., works.....lb.	1.00	- —
Phosphate, defluorinated (see under D.).		
Phosphate rock, Fla., land pebble, unground, run-of-mine, washed, dried, 68-68%, b.p.l., bulk, car at mine, c.l..... long ton.	2.94	- 3.00
70%-68%, same basis... long ton.	3.34	- 3.49
72%-70%, b.p.l., same basis..long ton.	3.94	- 4.00
75%-74%, b.p.l., same basis..long ton.	4.94	- 5.09
77%-76%, b.p.l., same basis..long ton.	5.94	- 6.09
Prices for Florida phosphate are plus usual bonus penalty clause on oil and labor. Prices on entirely pebble 50c. per long ton higher than above quotations.		
finely ground, 65.5% b.p.l., 30% P_2O_5 minimum.... short ton.	4.65	- —
68%, b.p.l., basis 31% P_2O_5 minimum..short ton.	4.85	- —
70%, b.p.l., basis 32% P_2O_5 minimum..short-ton.	5.20	- —
Tennessee, brown, unground, run-of-mine, 70-68%, b.p.l., 5½% I. & a., same basis. ton.	5.50	- —
72%-70%, b.p.l., 5½% I. & a., same basis..long ton.	6.00	- —
29% P_2O_5, same basis..... long ton.	5.15	- —
30% P_2O_5, same basis.... long ton.	5.35	- —
finely ground, 31% P_2O_5, same basis..short ton.	5.45	- —
32% P_2O_5, same basis.... short ton.	5.70	- —
33% P_2O_5, same basis.... short ton.	6.20	- —
Phosphorus, red amorphous, cs. lb.	.33	- .35
tins, export .....lb.	.40	- .45
yellow, cns. .....lb.	.25	- .27
dms., c.l. .....lb.	.22	- —
Oxychloride, dms., c.l.....lb.	.10½-	—
Pentoxide, dms., c.l., works.. lb.	.12	- —
l.c.l., works .....lb.	.13	- .14
Sesquisulphide, tins, cs.....lb.	.26	- .27
Trichloride, dms. c.l.....lb.	.10½-	—
l.c.l. .....lb.	.12½-	.15
Phthalamide, bbls., works.....lb.	.35	- .40
kgs., works.....lb.	.45	- .50
Phthalic anhydride, bgs., bbls., c.l., works, frt. alld. E. of Denver..lb.	.14½-	—
l.c.l., same basis.....lb.	.15½-	—
Picbi leaves, bgs.....lb.	.07	- .08
Picoline (see Alphapicoline and Betapicoline).		
Picrotoxin, bots .....oz.	8.60	- —
Pilocarpine hydrochloride, USP, bots., vials..oz.	6.50	- 7.50
Nitrate, bots., vials.....oz.	6.25	- 7.25
Pimento, Jamaica, bgs.....lb.	.23½-	.24
Pinetar, retort, dms., extra, c.l., works, South..gal.	.36½-	—
l.c.l., works, dms., extra.. gal.	.38½-	—
l.c.l., whse., N.Y.C., dms., extra..gal.	.47⅞-	—
tanks, works South.....gal.	.30½-	—
Pinkroot, bls. .....lb.	1.10	- 1.15
Piperazine hexahydrate, bots..lb.	12.00	-12.50
Pitch, burgundy (see B).		
Coaltar, 150° m.p., bbls., c.l., works..ton.	24.25	- —
l.c.l., works.....ton.	27.25	- —
Cottonseed, dms., works....lb.	.10½-	.10⅝
Hardwood, paper bgs., works.. lb.	.04	- —
Linseed, dms.....lb.	No prices	
Petroleum (see Asphaltum, Mexican, Texas).		
Pine, dms.....100 lbs.	7.85	- —
stands, 200 lbs.....stand.	15.70	- —
Soybean, dms., works.....lb.	.10¼-	.10½
Plaster of paris (see Gypsum).		
Podophyllin, dms. .....lb.	13.50	-13.75
Pokeroot, bls. .....lb.	.16	- .17
Polystyrene, plain colors, dms., 30,000 lbs., works, frt. alld. lb.	.31½-	—
20,000 lbs., frt. alld.....lb.	.32½-	—
smaller lots, frt. alld....lb.	.33½-	.35½
Water-clear, polystyrene, 7c. per lb. less than plain colors.		
Pomegranate, root, bark, bgs..lb.	.75	- .76
Poppy flowers, bls.....lb.	.60	- .70
Seed, Argentine, bgs.....lb.	.19½-	.20
Danish, bgs. .....lb.	.21	- .21½
Dutch .....lb.	.23	- .23½
Turkish, bgs.....lb.	.21	Nom.
Potash abietate .....lb.	.06	- —
Acetate, USP, dms.....lb.	.32	- .34
Bicarbonate, USP, gran., dms. lb.	.20	- .22
powd., dms. .. ..lb.	.22	- .24
Bichromate, bgs., c.l., works.. lb.	.10¾-	—
l.c.l., works.. .....lb.	.10¾-	.11¼
Potash bichromate in bbls., ¼c. higher.		
Borate, gran., bbls., c.l., works. ton.	200.00	- —
ton lots, works.....ton.	218.50	- —
less ton lots, works....ton.	223.50	- —
Bromide, USP, cryst., gran., 500-lb. bbls., dms..lb.	.25	- .26
Carbonate, calcined, bbls., c.l., works..lb.	.07¼-	—
l.c.l., same basis.....lb.	.08	- —
hydrated, 83-85%, bbls., c.l., works..lb.	.05¾-	—
dms., l.c.l., same basis..lb.	.06½-	—
USP, gran., bbls., dms....lb.	.14	- .19
powd., bbls., dms.....lb.	.20	- .25
Caustic, low-chloride, 99% basis, flake, dms., c.l., works. 100 lbs.	9.50	- —
l.c.l., works....100 lbs.	19.25	- —
liquid, dms., c.l., works..... 100 lbs.	8.75	- —
l.c.l., works....100 lbs.	9.50	- —
tanks, works.....100 lbs.	8.25	- —
solid .....100 lbs.	8.75	- —
l.c.l., works....100 lbs.	9.50	- —

In the good old summer time —

For millions of Americans, young and old, sunny skies and balmy weather are synonymous with the pleasures of swimming . . . the relaxation of a cooling dip, or the exhilaration of a fast crawl.

Columbia products help to keep swimming the grand care-free recreation it is. Pittchlor* rids captive water of dangerous bacteria, keeps locker rooms, showers and other facilities free of infection . . . just as Pittchlor and Columbia Liquid Chlorine are used to assure pure drinking water for millions *every day.*

*PITTCHLOR—a 70%, high-test calcium hypochlorite of good stability in the form of dry, white granules—is a convenient way to put chlorine to work for disinfecting, deodorizing, sterilizing and bleaching. Used by food plants, dairies, laundries, sewage plants, etc., or wherever the oxidizing power of chlorine is desired.

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COLUMBIA ESSENTIAL INDUSTRIAL CHEMICALS
Soda Ash · Caustic Soda · Liquid Chlorine · Sodium Bicarbonate · Pittchlor · Silene EF (Hydrated Calcium Silicate) · Calcium Chloride · Soda Briquettes (Iron Desulphurizer) · Modified Sodas · Caustic Ash · Phosflake (Bottle Washer) · Calcene T (Precipitated Calcium Carbonate)

CELANESE ANNOUNCES METHYL ETHYL KETONE

In line with growing demands and short supply, commercial production of Methyl Ethyl Ketone has now been established at the Celanese Texas plant. This well-known solvent, widely used in the plastics and lacquer industries, is now being produced in tank car quantities to meet industrial requirements.

In addition to its outstanding solvent power, Methyl Ethyl Ketone possesses a higher boiling point and lower vapor pressure than acetone. Its unusual properties make it ideal as an intermediate in the manufacture of organic chemicals and dyes. It is a colorless liquid, soluble in water, alcohol and ether and miscible with oils.

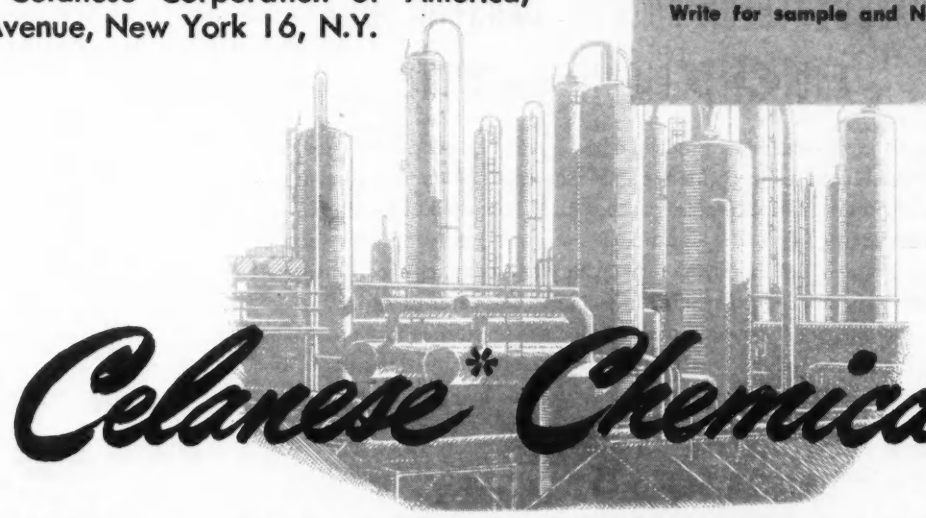
Your Celanese chemical representative will be glad to supply samples and any specific data about Methyl Ethyl Ketone. Celanese Chemical Corporation, a division of Celanese Corporation of America, 180 Madison Avenue, New York 16, N.Y.

METHYLAL

This Celanese Chemical is now available in quantities to permit large scale experimentation. A high power, low boiling solvent, methylal is stable in the presence of alkalies . . . valuable as a vaporizing, extraction or reaction solvent.

	PHYSICAL PROPERTIES	TENTATIVE SPECIFICATIONS
METHYLAL CONTENT	100%	95% Min.
COLOR	Water White	Water White
SPECIFIC GRAVITY $\frac{20°C.}{4}$	0.8601	0.8600—0.8630
FLASH POINT, OPEN CUP, approx.	0° F.	0° F.
BOILING POINT	42.3° C.	41.5°—43.5° C.
REFRACTIVE INDEX, $n\frac{20° C.}{D}$	1.3534	1.3530—1.3550

Write for sample and New Product Bulletin N-08-1.



Celanese* Chemicals

ALCOHOLS · ALDEHYDES · ACIDS · SOLVENTS · INTERMEDIATES · PLASTICIZERS · KETONES

*Reg. U.S. Pat. Off.

Potash caustic, regular, flake, 88-92%, dms., c.l., works.. lb. .07½- —
l.c.l., works.....lb. .08¼- —
liquid, 45% basis, dms., c.l., works, frt. alld..lb. .0337½- —
l.c.l., same basis.....lb. .03¾- —
tanks, same basis.....lb. .03½- —
solid, 88-92%, dms., c.l., works..lb. .06¾- —
l.c.l. .....lb. .07½- —
Chromate, tech., bgs.....lb. .25 - .29
Chlorate, cryst., kgs., c.l., wks. lb. .08½- —
l.c.l., works.....lb. .09¾- —
powd., dms., kgs., c.l., works. lb. .09 - -
l.c.l., works.....lb. .09¾- —
export, 1 to 10 tons, kgs., ex whse..lb. .12 - —
Chloride, tech., cryst., 98%, bgs., kgs..lb. .08 Nom.
Citrate, USP, gran., bbls., dms. lb. .35½- .40½

Potash citrate, USP, powd., 3c. per lb. higher.

Cyanide, dms., works.....lb. .55 - —
Fluoride, bbls.....lb. .34 - .40
Glycerophosphate, 75% solution, cbys..lb. 2.30 - —
Guaiacol sulphonate, NF, dms. lb. 1.80 - 1.85
Hydroxide, USP, sticks, dom.lb. .34 - .36
Hypophosphite, cns.....lb. .72 - .75
Iodide, dms.....lb. 1.75 - 1.78
Manure salt, 22% K_2O, Carlsbad, N. M..unit-ton. .20 - —
25% K_2O, same basis.unit-ton. .21 - —
Metabisulphite, gran., bbls...lb. .19 - .21
powd., bbls.....lb. .25 - —
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M..unit ton. .37½- —
Trona, Cal. ....unit ton. .45½- —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .28 - .34
Perchlorate, kgs., works.....lb. .10 - .11
Potash permanganate, tech., dms., works..lb. .20¾- .21¼
USP, dms., works.....lb. .22½- .23
Persulphate, dms., c.l., works, lb. .16 - —
l.c.l., same basis.....lb. .20 - —
Phosphate, tetrabasic, bbls., works..lb. .13 - .13½
Prussiate, red, kgs.....lb. .55 - .58
Yellow, bbls.....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l., works, ton. 200.00 - —
l.c.l. .....100 lbs. 15.25 - —
solution, 29° Be, ret. drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works... 100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
32° Be, ret. dms., c.l., works, 100 lbs. 4.75 - —
l.c.l., 5 or more, works. 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works..100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Sulphate, NF, cryst.....lb. .30½- .33½
powd., bbls. .....lb. .14½- .17
tech., dom., bulk* basis 90-95% K_2O_4 min. 90%, ex vessel Atlantic or Gulf ports.. ton. 36.25 - —
West coast potash ports, same basis..ton. 39.25 - —
Sulphocyanide, cryst., N.F., dms..lb. .62 - .70
Triocyanate (see Potash sulphocyanide).
Xanthate, dms., c.l..... lb. .12 - —
Potash-magnesia sulphate, bulk, min., 40% K_2SO_4 18.50% MgO, ex vessel, ports...ton. 26.00 - —
Potash-soda ferricyanide, kgs., works..lb. .45 - .48
Potash-titanium oxalate, bbls., dms..lb. .50 - .55
Prickly ash bark, bls.....lb. .33 - .34
Berries, bgs. .....lb. .20 - .21
Prince's pine herb, bls.....lb. .48 - .50
Procaine hydrochloride, cns., 100-lb. lots..lb. 5.00 - 5.10
Propane, industrial grade, tanks, Group 3..gal. .06½- —
Propyleneglycol, dms., c.l., frt. alld. in E..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .14½- —
Psyllium seed (see Fleaseed).
Pulsatilla, bls. .....lb. .60 - .65
Pumice, grd., fine, bgs., ton lots, lb. .03½- —
smaller lots .....lb. .03¾- .04
coarse, 0½, 1, 1½, 2, 3, bgs., ton lots..lb. .03¾- —
smaller lots .....lb. .03¾- .04¼
Chi., ton lots .....lb. .04½- —
Italian, silk-screen, fine, ton lots, bgs..lb. .04 - —
coarse, same basis.....lb. .05½- —
sun-dried, fine, ton lots, bgs. lb. .03 - —
coarse, same basis.....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs .....lb. .27 - .29
Purple lake (see Red).
Putty, com'l, dms.....100 lbs. 3.85 - 4.55
linseed oil, raw, dms...100 lbs. 8.50 - 9.90
refined, dms. .....100 lbs. 12.00 -13.20
standard, dms. .....100 lbs. 7.15 - 8.05
Pyrethrum, concentrate, dewaxed, 20% for aerosol bombs, dms., works..lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams pyrethrins for 100 cc., dms., regular base, works..gal. 6.65 - —
liquid, odorless base, dms., works..gal. 6.75 - —
(30 to 1), base 3 grams pyrethrins, per 100 cc. bbls., works..gal. 10.00 - —
Pyrethrum, flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .33¾- —
powder, 0.5% pyrethrins, bbls., works..lb. .25 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 - 1.90
refd., 2°, ret. dms., same basis. lb. .55 - .55½
Pyridoxin hydrochloride, 100-gram lots..kilo. 650.00 - —
Pyrites, Spanish, c.i.f. Atl. ports. long-ton 8.00 -10.00
Pyronate, dms., c.l., divd. E. of Miss..gal. .70 - —
l.c.l., works .....gal. .70 - —
tanks, divd., E. of Miss....gal. .60 - —

Pyrenate prices W. of Miss., 3c. per gal. higher.

Pyrocatechin (see Catechol).
Pyrophylite, standard, 200 mesh, c.l., bulk, mines..ton. 10.00 -11.50
325 mesh, same basis.....ton. 13.00 -13.90
No. 3, 200 mesh, c.l., mines.ton. 9.50 - —
325 mesh, same basis....ton. 11.50 - —

Pyrophylite in paper bags., $1.50 per ton extra.

Pyroxylin, scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .17 - —
gray, cs., works.....lb. .17 - —
mixed, mottled, cs., wks.lb. .14 - —
white, China, ivory, cs., wks. lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works..lb. .17 - —
transparent, cs., works....lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, amber, cs., works..lb. .17 - —
mixed colors, cs., works..lb. .14 - —
white, cs., works.....lb. .17 - —

Q

Quassia chips, bls.....lb. .07 - .09
Quebracho extract, solid, 63% tannin, bgs., c.l., ex dock, in bond..lb. .09¼- .09½
clarified, 64% tannin, bgs., c.l., same basis..lb. No prices
35% tannin, bbls., works. lb. .07 - —
tanks, works.....lb. No prices
extract, grd., 70% tannin, bgs., c.l..lb. .14½- —
powder, bgs., c.l.....lb. .13½- —

Quebracho extract prices based on $31 freight and $1.00 insurance per long ton.

Queen of the meadow root, bgs. lb. .12 - .13
Quercitron crystals, bbls.....lb. .32 - —
Extract, No. 1, bbls.....lb. .14 - —
solid, bxs. .....lb. .27 - —
Quicksilver, flasks (76 lbs. net) flask. 84.00 -85.00
Quince seed, bgs.....lb. 1.30 - 1.75
Quinidine, NF V, cryst., cns.oz. No stocks
powd., precip., cns.....oz. No stocks
Sulphate, USP, cns.....oz. .84½- .90½
Quinine, NF, cns., 100 ozs....oz. No stocks
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs. oz. No stocks
Citrate, cns., 100 ozs.....oz. No stocks
Dihydrobromide, bots., 50 ezs. oz. No stocks
Ethylcarbonate, NF, cns., 100 ozs..oz. No stocks
Ferrocyanide, cns., 100 ozs..oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydrochloride, USP, cns., 100 ozs..oz. .89½- —
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydroiodide, cns., 100 ozs..oz. No stocks
Hypophosphite, cns., 100 ozs.oz. No stocks
Phosphate, NF, cns., 100 ozs.oz. No stocks
Salicylate, NF, cns., 100 ozs.oz. No stocks
Sulphate, USP, cns., 100 ozs.oz. .80½- —
Sulphocarbolate, cns., 100 ozs. oz. No stocks
Tannate, USP X, cns., 100 ozs. oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs....oz. No stocks
Quinine-urea hydrochloride, USP, cns..oz. No stocks
Quinoline, dms., c.l., works..alb. .32 - .50

R

R salt, dry, bbls.....lb. .61 - .72
paste, dms. .....lb. .57 - —
Raspberries, dried, bls.....lb. 2.00 - 2.10
Red, alizarin lake, bbls., divd. N. of Tenn. and N. C., E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. 1.45 - 2.05

Prices ½c. per lb. higher divd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher divd. Pacific Coast prices equaled with Chicago divd. Denver, Pueblo, Salt Lake City, Wichita

Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb. 1.25 - —
light shade, bbls., same basis..lb. 1.10 - —
maroon, bbls., same basis. lb... 1.35 - 1.45
medium shade, bbls., same basis..lb. 1.20 - —
medium-light shade, bbls., same basis..lb. 1.15 - —
orange-red, bbls., same basis..lb. 1.05 - —

Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.

Carmine, No. 40, dms., bulk, works..lb. 5.50 - 5.65
smaller lots, same basis, lb. 6.10 - 6.15
Crocus martis (see Red, purple, oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works....lb. 1.35 - —
Firetoner, dom., bbls., works.lb. .85 - .92
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y..lb. .11¼- —
80-85%, bgs., same basis..lb. .09½- —
Imp., English, all shades..lb. .16 - —
Iron oxide, pure, bbls.....lb. .10 - .10¼
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., E. St. Louis, and Trenton, N. J..lb. .06¾- —
80% copperas oxide, bbls., same basis..lb. .085 - .094
Lacquer, maroon, bbls., works, lb. 1.35 - 1.50
Lake C toner, alizarin, bbls., works..lb. 1.05 - —
Lithol toner, alizarin, lake, bbls., works..lb. .70 - —
Pink, bbls., works.....lb. .20 - .25
Rose lake, bbls., works....lb. .25 - .28

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THESE BASIC electro-chemical products grow in importance as the intensified need for them increases in a wide range of industries. As the first company in America to produce Caustic Potash, Carbonate of Potash and Liquid Chlorine, and one of the first to produce Caustic Soda, Niagara has spent many years of painstaking research in improving their quality and adapting them to specialized needs. Niagara products maintain the highest standards of purity and uniformity, and Niagara's service in these products is unexcelled in thoroughness and efficiency to the full limit that the present production situation permits. For pioneering leadership in the electro-chemical field, look with confidence to Niagara. ... Niagara Alkali Company, 60 E. 42nd Street, New York 17, N. Y.

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Red, lithol-rubin toner, alizarin lake, bbls., works..lb. 1.30 - —
Maroon, alizarin lake, 25%, kgs., works..lb. .40 - .43
Cadmium, bbls., works....lb. 1.10 - —
deep, bbls., same basis..lb. 1.20 - —
Maroon, in smaller pkgs., 5c. per lb. higher.
Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.30 - —
smaller lots, works..lb. 2.32 - —
Metallic, bbls., works.....lb. .02 - —
Oxide (see Red, iron oxide).
Para toner, chlorinated, kgs.lb. .97 - —
concentrated, alizarin lake, kgs., works..lb. .80 - —
Persian (see Orange).
Phloxin toner (see Red, eosin toner).
Phosphotungsic, rhodamine, Y, kgs., works..lb. 4.15 - —
Purple lake, kgs.....lb. 1.35 - —
Scarlet ink toner, kgs., works, lb. .55 Nom.
Spanish oxide, grade 1, c.l., bbls..lb. .05½- .06¼
Toluidin toner, alizarin lake, kgs., works..lb. 1.25 - —
MNPT maroon toner, kgs., works..lb. 3.25 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L....lb. .11 - —
Venetian, 15%, bgs., works..lb. .0300- —
20%, bgs., works.....lb. .0310- —
25%, bgs., works.....lb. .0340- —
30%, bgs., works.....lb. .0365- —
35%, bgs., works.....lb. .0395- —
40%, bgs., works.....lb. .0420- —
Vermillion, Amer., bbls....lb. .22¼- .48
Quicksilver, bbls.....lb. 2.50 - 2.65
Red precipitate, NF, powd., fib. dms..lb. 2.48 - 2.50
Red saunders wood, grd., bbls.lb. .35 - —
Resorcinol tech., dms., works.lb. .68 - —
USP, cryst., dms., works....lb. 1.70 - —
Rhatany root, bgs.....lb. .13 - .14
Rhubarb, whole, cs.....lb. .85 - .90
powd., bbls. .....lb. .95 - 1.00
Riboflavin, bots.....kilo.200.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif., seller's option. lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs., 1 ship't..lb. .34½- —
smaller lots.....lb. .35 - —
Rose flowers, pale, bls.....lb. .24 - .26
Rosemary flowers, bls.....lb. 1.55 - 1.65
Leaves, French, bls.....lb. .12 - .12½
Portuguese, bls. .....lb. .07½- .08
Spanish, bls. .....lb. .13 - .13½
Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works, 100 lbs. 5.50 - —
FF, dms., c.l., works.100 lbs. 7.00 - —
G, H, I, dms., c.l., works.. 100 lbs. 8.10 - —
K, dms., c.l., works..100 lbs. 8.10 - —
M, dms., c.l., works..100 lbs. 8.10 - —
N, dms., c.l., works..100 lbs. 8.20 - —
WG, dms., c.l., works.100 lbs. 8.25 - —
WW, dms., c.l., works.100 lbs. 8.30 - —
X, dms., c.l., works..100 lbs. 8.40 - —
Rotenone, bbls., works.....lb.20.00 -24.00
extract, liq., dms., works..... per unit. 1.75 - —
powder (see Cube root).
Rottenstone, bgs., c.l., mines.ton.34.00 - —
l.c.l., mines.....ton.43.00 - —
Rue, bls. .....lb. .45 - .46

S

Sabadilla seed, powd., bbls...lb. .75 - .82
activated, ground, with lime, bbls..lb. .43 - .50
Saccharin, insoluble and soluble, 1,000 lbs. and up..lb. 1.30 - 1.35
smaller lots.....lb. 1.40 - 1.50
Saffron, Mexico, bls.....lb. 1.55 - 1.60
Spanish, USP, tins.....lb.37.00 -38.00
boxes .....15 ozs.33.00 -34.00
Safrol, cns. .....lb. 1.10 - 1.45
Sage, Cyprus, good, bls.....lb. .16½- .17
futures, bls. .....lb. .16 - .16½
Dalmatian, bls. .....lb. .20 - .25
Greek, fancy, bls.....lb. .22 - .22½
Palestine, bls. .....lb. .16 - .16½
Spanish, bls. .....lb. .15 - .15½
Sago flour, bgs.....lb. .07 - .07½
Salicin, bots, 25 lbs.....lb. No stocks
cns., 25 lbs.....lb. No stocks
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs.....lb. 1.00 - —
fib. dms.....lb. 1.02 - 1.03
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton.17.50 - —
l.c.l., bgs.....ton.21.70 - —
vacuum, common, fine, bgs., c.l..ton.18.60 - —
l.c.l. .....ton.25.10 - —
Saltcake, dom., bulk, works..ton.20.00 -26.00
Chrome (see Chrome cake).
Saltpeter, cryst., bbls., 10 tons, 100 lbs.12.40 - —
smaller lots, bbls....100 lbs.12.65 -12.90
gran., bbls., 20 tons....100 lbs. 8.00 - —
smaller lots.....100 lbs. 9.00 - 9.50
powd., bbls., 20 tons....100 lbs. 9.00 - —
smaller lots.....100 lbs.10.00 -10.50
Saltpeter in bags is 25c. per 100 lbs. less than in barrels; in kegs it is $1 more.
Sanguinarine nitrate, bots....oz. 4.75 - 5.50
Santonin, cryst., powd., cns.kilo.175.00 -185.00
Saponin, No. 1, cns.....lb. 1.75 - 1.90
No. 2, cns.....lb. 1.40 - —
Sarsaparilla root, dom., bls...lb. .45 - .50
Honduras .....lb. .65 - .66
Mexican, bls. .....lb. .57 - .60
Sassafras bark, ord., bls.....lb. .45 - .50
select, bls. .....lb. .65 - .70
Savory, French, bls.....lb. .21 Nom.
Saw palmetto berries, bgs....lb. .23 - .24
Scammony resin, lump, cns...lb. 1.30 - —
powd., cns. .....lb. 1.35 - —
Root, bgs. .....lb. .13 - .14
Shaeffer's salt, bgs. .....lb. .60 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .27¾- —
smaller lots .....lb. .28¼- —
kegs, 5,000 lbs., 1 shipm't..lb. .28¼- —
smaller lots .....lb. .28¾- —
Selenium, pwd., cns., 10-lb. lots, lb. 1.85 - —
cs., 1,000-lb. lots.....lb. 1.75 - —
Senega root, bls.....lb. 2.10 - 2.20
Senna leaf, Alex., half-leaf, bls. lb. .26 - .27
siftings, bgs. .....lb. .23 - .24
Tinnevelly, No. 1, bls....lb. .25 - .27
2 bls. .....lb. .23 - .25
3, bls. .....lb. .21 - .23
Pods, bls. .....lb. .53 - .54
Serpentaria root, bls.....lb. No stocks.
Shellac, bleached, bonedry, bbls., 1,500-lb. lots..lb. .85 - —
refined, bbls., 1,500-lb. lots. lb. .73 - —
Bonedry shellac sales of less than 1,500 lbs., at following additions to prices: (1) packed in bgs., ¾c. per lb.; (2) bbls., 1c. more; (3) kgs., 3c. more.
Lemon No. 1, bgs.....lb. .64 - .64
No. 2, bgs.....lb. .62 - .64
Superfine, 100 bgs. .....lb. .60 - .61
TN, 100 bgs. .....lb. .58 - .60
Shellac in cs., 2c. higher. Shellac sales 1 bg. or 1 cs., 5c. additional; 1 to 9 bgs. or cs., 2c. more; 10 to 99 bgs., cs., 1c. more.

Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works. ton.17.00 - —
l.c.l., works .....ton.30.00 - —
400 mesh, bgs., c.l., works, ton.18.00 - —
l.c.l., works .....ton.19.00 -20.00
wet-grd., 320 mesh, bgs., c.l., works..ton.18.00 - —
l.c.l., works .....ton.21.00 - —
400 mesh, bgs., c.l., works, ton.30.00 - —
l.c.l., works .....ton.35.00 -38.00
96-98%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works .....ton.21.50 -23.00
99%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works .....ton.22.00 -25.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton.15.50 - —
l.c.l., works .....ton.18.50 - —
140 mesh, bgs., c.l., works.. ton.11.00 - —
l.c.l., works .....ton.16.00 - —
Tetrachloride, tech., dms., c.l., works..lb. .15½- —
l.c.l., works .....lb. .16½- .27
Silver, bullion.....oz. .70¾- —
Cyanide, cns., 100 ozs.....oz. .75%- —
Nitrate, 250-oz. bots., 2,500-oz. lots..oz. .49%- —
1,000-oz. lots .....oz. .49%- —
500-oz. lots .....oz. .50½- —
single 250-oz. lots.....oz. .50¾- —
Neucleinate, USP, bots., dms., 1,000-oz. lots..oz. .45 - —
Proteinate, USP, bots., dms., 1,000-oz. lots..oz. .40 - —
Simarubra bark, bls.....lb. .85 - .86
Skullcap, Eastern, bls.....lb. .85 Nom.
Western, bls. .....lb. .30 - .35
Skunk cabbage rot, bls.....lb. .44 - .45
Slate flour, bgs., c.l., works.ton.11.00 -12.00
l.c.l., ex whse.....ton.20.00 - —
Sloe berries, bgs. .....lb. .39 - .40
Smalt, black, ctns.....lb. .05 - .06
Blue, ctns. .....lb. .07 - .08½
Snakeroot, Canada, bls.....lb. .63 - .65
Soapbark, bls. .....lb. .24 - .25
crushed, bls., bbls.....lb. .32 - .33
cut, imp., bbls. .....lb. .32 - .33
powd., bbls. .....lb. .30 - .31
Soda acetate, anhyd., dms., dlvd. lb. .06½- .10
cryst., NF, bbls., kgs.....lb. .14 - .16
tech., 60%, l.c.l., dlvd....lb. .05½- .06
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms.....lb. 1.50 - 1.60
Alkylbenzene sulphate, dms., works..lb. .13 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.60 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.50 - 8.00
Antimoniate, bbls., dlvd.....lb. .10 - .16½
Arsenate, dealers, dms., c.s., works..lb. .12 - —
l.c.l., works .....lb. .13½- .13¾
Arsenite, grey, dms., dealers, c.l., works..lb. .10¾- —
l.c.l., works .....lb. .13¼- .13¾
Soda arsenite, gray ¾c. higher in Chi., 2c. higher in Houston, Tex., and Palo Alto, Calif.
Ash, dense, 58%, bgs., c.l..... 100 lbs. 1.28 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.63 - —
2 .....100 lbs. 2.78 - —
3 .....100 lbs. 3.13 - —
4 .....100 lbs. 3.73 - —
bbls., c.l., works, zone 1. 100 lbs. 1.68 - —
l.c.l., zone 1.....100 lbs. 3.03 - —
2 .....100 lbs. 3.18 - —
3 .....100 lbs. 3.53 - —
4 .....100 lbs. 4.13 - —
Soda ash, dense, 58%, bulk, c.l., works..100 lbs. 1.08 - —
extra light, 58%, bgs., c.l... 100 lbs. 1.30 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.65 - —
2 .....100 lbs. 2.80 - —
3 .....100 lbs. 3.15 - —
4 .....100 lbs. 3.75 - —
light, 58%, bgs., c.l., zone 1. 100 lbs. 1.20 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.55 - —
2 .....100 lbs. 2.70 - —
3 .....100 lbs. 3.05 - —
4 .....100 lbs. 3.65 - —
bbls., c.l., works..100 lbs. 1.00 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.95 - —
2 .....100 lbs. 3.10 - —
3 .....100 lbs. 3.45 - —
4 .....100 lbs. 4.05 - —
bulk, c.l.....100 lbs. 1.00 - —

Soda ash prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse.

Sales zones are: (1) All States E. of Miss. R. and N. of south bound. of Ky. 31°, Tex. E. of 100°, S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark., E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La., and Miss. No. of 31°; (3) Ark. W. of 96°, Kans., Neb., W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

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Soda benzoate, tech., bbls., 2 tons or more..lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons or more, lb. .46 - --
smaller lots.....lb. .47 - .52
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.25 - —
l.c.l. .....lb. 2.37½- 2.59
Bichromate, bgs., c.l., works..lb. .08¼- —
l.c.l., works.....lb. .08¾- .08⅞
Soda bichromate, in bbls., ¼c. higher.
Bifluoride, bbls., c.l., frt. alld. E..lb. .11½- —
l.c.l., same basis.....lb. .13 - .14
kgs., l.c.l., same basis....lb. .12½- .14
Bisulphite, powd., bbls., c.l., works..100 lbs. 3.00 - 3.25
l.c.l., works.....100 lbs. 3.50 - 3.60
solut., 32°, bbls., c.l., works. 100 lbs. 1.30 - —
l.c.l., works.....100 lbs. 1.65 - —
35°, bbls., c.l., works.. 100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.65 - —
40°, bbls., c.l., works.100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - —
Bromide, USP, gran., bbls., 500 lbs., works..lb. .25 - —
dms., works.....lb. .25 - .26
Cacodylate, bots., dms.....lb. 8.50 -12.00
Carbonate (see Soda ash, Soda monohydrate, Soda sal).
Caustic, flake, powd., 76% dms., c.l., works..100 lbs. 2.90 - 3.00
l.c.l., zone 1, dlvd..100 lbs. 4.25 - —
2, dlvd.....100 lbs. 4.40 - —
3, dlvd.....100 lbs. 4.75 - —
4, dlvd.....100 lbs. 5.35 - —

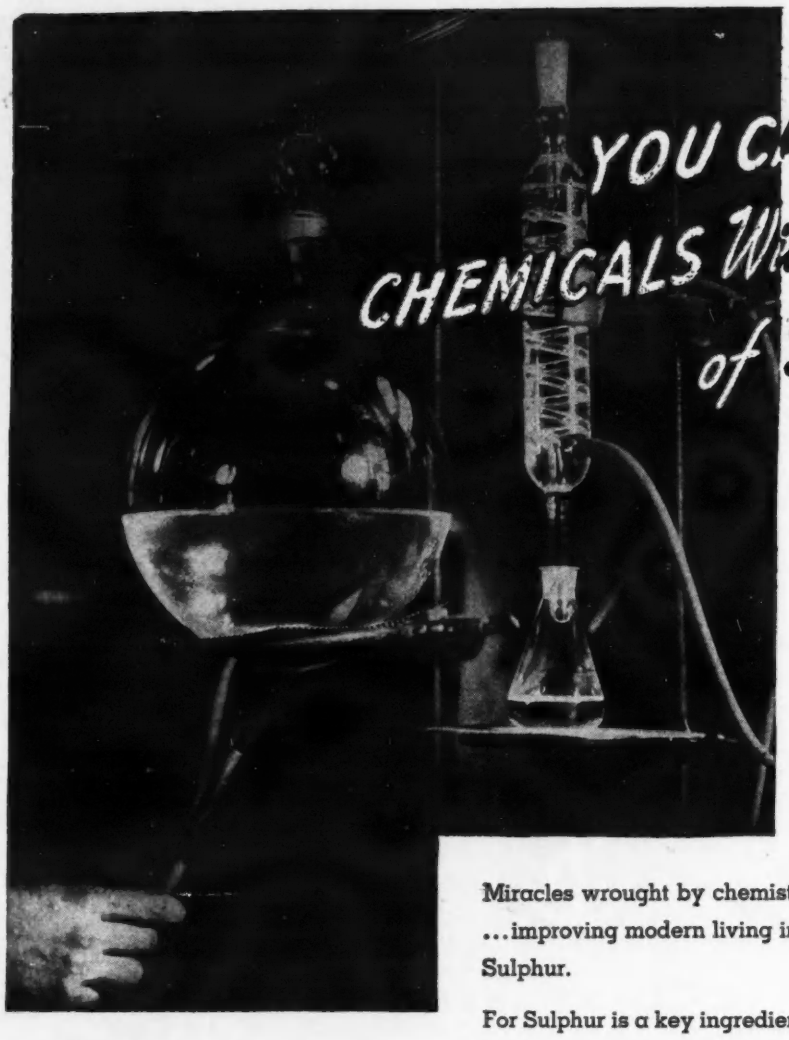
Soda caustic, liquid, 50%, buyers' tanks, works, dry basis.. 100 lbs. 2.00 - —
sellers, tanks, works, dry basis..100 lbs. 2.10 - —
70%, sellers' tanks, works, dry basis..100 lbs. 2.10 - —
solid, 76%, dms., c.l., works, 100 lbs. 2.50 - 2.75
l.c.l., zone 1, dlvd..100 lbs. 3.85 - —
2, dlvd.....100 lbs. 4.00 - —
3, dlvd.....100 lbs. 4.35 - —
4, dms.....100 lbs. 4.95 - —

Prices f.o.b. stock points in zones indicated Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse.
Soda caustic zones are same as soda ash.

Chlorate, cryst., bgs., c.l., works..lb. .06¼- —
l.c.l., works.....lb. .06½- —
powd., kgs., c.l., works....lb. .06½- —
l.c.l., works.....lb. .07 - .08½
Chloride (see Salt).
Chromate, bgs., c.l., works, frt. equald..lb. .09½- —
l.c.l., works, frt. equald..lb. .09¾- .10
Soda chromate in bbls., ¼c. higher.
Citrate, USP VIII, bbls.....lb. .20 - —
dms.....lb. .21 - .25
USP XIII, gran., bbls.....lb. .26 - —
dms.....lb. .27 - .31
Potash citrate, USP XIII, powd., prices ½c. higher.
Cyanide, 9-96%, dms.....lb. .14½- .15
Diacetate, 33-35% acidity, bbls., works, dlvd..lb. .09½- .10½
anhydrous, dms., works....lb. .11½- .13
Fluoride, white, 90%, bbls., c.l., works..lb. .09½- —
l.c.l., works.....lb. .09¾- —
95%, bbls., c.l., works..lb. .09¾- —
l.c.l., works.....lb. .10 - —
Soda fluoride prices at Los Angeles are f.a.s. works.

Soda formate, bgs., c.l., works, lb. .0605- .0650
l.c.l. .....lb. .07 - .0790
Glutamate, monobasic, kgs..lb. 1.46 - 1.48
Glycerophosphate, NF, cryst., bbls..lb. 1.90 - —
powder, bbls.....lb. 1.95 - —
solution, 75%, cbys.....lb. 1.10 - —
50%, cbys.....lb. .85 - —
Hydrosulphite, dms., c.l., frt. alld..lb. .18½- .19
l.c.l., frt. alld.....lb. .19 - .20
Hydroxide, USP, sticks, dms.lb. .24 - .29
Hypophosphite, NF, cns.....lb. .67 - .70
Hyposulphite, cryst., bgs., c.l., works, frt. equald..... 100 lbs. 2.75 - —
l.c.l., same basis..100 lbs. 3.15 - —
pea, cryst., bgs., wks.100 lbs. 4.30 - 5.25
Soda, hyposulphite, crystals, in bbls., 40c. higher; pea crystals, dms., 50c. higher.
USP, cryst., bbls.....lb. .10 - .12
Iodide, dms., jars.....lb. 2.72 - 2.83
Mandelate, dms. .....lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works..ton.90.50 - —
ton lots, works.....ton.108.00 - —
less ton lots, works..ton.113.00 - —
Ammonia metaborate in bbls., $20 per ton higher.
Metanilate, bgs. .....lb. .48 - —
Metasilicate, anhyd., bbls., c.l., works..100 lbs. 4.00 - —
gran., bgs., c.l., works..... 100 lbs. 3.00 - —
l.c.l., New York..100 lbs. 3.90 - 4.25
bbls., c.l., works...100 lbs. 3.40 - —
l.c.l., New York...100 lbs. 4.30 - 4.75
Monohydrate, bgs., c.l...100 lbs. 2.00 - —
works .....100 lbs. 2.45 - —
Naphthionate, bbls.....lb. .46 - .55

Soda nitrate, dom., crude, 100-lb. bgs., c.l., works..ton.35.50 - —
bulk, c.l., works.....ton.32.00 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse..ton.41.50 - —
bulk, same basis.....ton.38.50 - —
Nitrite, 96-98%, bbls., c.l., works, frt. equald..lb. .08¾- —
West coast, bbls., c.l., ports..100 lbs. 8.00 - 8.05
l.c.l., dlvd.....100 lbs. 8.90 -11.00
Orthosilicate, anhyd., bbls., c.l., works, frt. equald..100 lbs. 4.00 - —
l.c.l., same basis..100 lbs. 5.45 - 5.80
flake, hydrated, bbls., c.l., works..100 lbs. 4.00 - —
l.c.l., works.....100 lbs. 5.10 - 5.35
Oxalate, neut., bgs., works..lb. .10 - —
Pantothenate, dextrorotary, 100-gram bots..per gram. .10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .19
powd., bgs., c.l., works, frt. equald..lb. .16 - .16¼
l.c.l., works, frt. equald.lb. .17 - —
kgs., l.c.l., works, frt. equald. lb. .19 - —
Perborate, NF, bbls., c.l., works..lb. .14¾- —
l.c.l., works.....lb. .15½- —
Peroxide, dms., c.l., dlvd. E. of Miss..lb. .14 - —
smaller lots .....lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works.. 100 lbs. 6.25 - —
l.c.l., works....100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works.. 100 lbs. 3.50 - —
l.c.l., works....100 lbs. 3.75 - 3.90
USP XII, dried, bbls., dms., works..lb. .159 - —
monobasic, anhydrous, bgs., works..100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 7.65 - 9.00
tribasic, anhydrous, bgs., c.l., works, frt. equald.100 lbs. 7.00 - —
l.c.l., same basis.100 lbs. 7.50 - 8.00
cryst., bgs., c.l., works... 100 lbs. 3.50 - —
l.c.l., same basis.100 lbs. 3.90 - —
kgs., c.l., works..100 lbs. 4.20 - —
l.c.l., works....100 lbs. 4.40 - —
Soda phosphate in bbls. 40c. higher.
USP (see Sodium phosphate. dibasic(.
Prussiate, yellow, bgs.....lb. .12 - —
bbls. .....lb. .12¼- —
Pyrophosphate, acid, bgs., works, frt. equald..100 lbs.10.00 -11.35
ferric, dms., 10,000 lbs., works..lb. .22 - —
smaller lots, works....lb. .22½- —
tetrabasic, anhydrous, bgs., c.l., works, frt. equald. 100 lbs. 6.00 - —
Ricinopleate, tech., bbls....lb. No stocks
Sal, bgs., c.l.....100 lbs. 1.35 - —
works, c.l.....100 lbs. 1.10 - —
bbls., c.l.....100 lbs. 1.40 - —
works, c.l.....100 lbs. 1.20 - —
Salicylate, dms.....lb. .57 - .60
Sesquicarbonate, bgs., c.l., works..100 lbs. 1.50 - —
bbls., c.l., works..100 lbs. 1.70 - —
l.c.l., zone 1, dlvd..100 lbs. 2.70 - —
2, dlvd.....100 lbs. 2.85 - —
3, dlvd.....100 lbs. 3.10 - —
4, dlvd.....100 lbs. 3.50 - —
Soda sesquicarbonate l.c.l. price zones are same as those for soda ash.
Sesquisilicate, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., dlvd.....100 lbs. 5.15 - 5.30
Silicate, 40°, turbid, dms., c.l., works..100 lbs. .95 - 1.15
l.c.l., works.....100 lbs. 1.20 - 1.30
tanks, works.....ton.15.00 - —
52°, turbid, dms., c.l., works, 100 lbs. 1.55 - —
l.c.l., works ....100 lbs. 1.80 - 2.00
tanks, works.....ton.27.00 - —
Silicofluoride, bbls., c.l., works, lb. .07½- —
l.c.l., works .....lb. .08½- —
Stannate, dms., works, frt. alld. E..lb. .43½- .47½
Stearate, bbls., works.....lb. .19 - .24
Sulphate, NF, dried, powd., bbls..lb. .10 - .10½
tech., anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt).
USP, cryst., gran., bbls....lb. .07 - .07½
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.90 - —
l.c.l., dlvd. .....100 lbs. 3.65 - 3.90
solid, bbls., c.l., wks.100 lbs. 3.05 - —
l.c.l., dlvd.....100 lbs. 4.15 - 4.50
Sulphite, cryst., bgs., c.l., works..100 lbs. 2.60 - —
l.c.l., works.....100 lbs. 3.00 - —
bbls., c.l., works.....100 lbs. 3.00 - —
l.c.l., works.....100 lbs. 3.40 - —
powd., bbls., c.l., works, 100 lbs. 5.25 - —
l.c.l., works.....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP IX, gran., bbls., dms..lb. .28 - .33
powd., bbls. .....lb. .30 - .35
Sulphocyanide, CP, dms....lb. .55 - .65
Sulphohydrate, flake, 70-72%, dms., c.l..lb. .05 - —
l.c.l. .....lb. .05½- —
liquid, 38%, tanks, basis 100%, works..lb. .04 - —
Sulphoxylate, formaldehyde, dms., c.l., works, frt. alld..lb. .17½- —
Sulphoricinoleate, bbls.....lb. .12 - —
Thiocyanate (see Soda, sulphocyanide).
Tripolyphosphate, bgs., works, frt. equald..lb. .07¼- .08½
Thiosulphate (see Soda hyposulphite).
Tungstate, tech., bgs.....lb. 1.45 - —
Soda-ammonia phosphate, bbls., works, frt. equald..lb. .23 - —
Soda-cinchophen, bots., dms., works..lb. 5.00 - 5.10
Soda-formaldehyde sulphoxalate, stand. cont., 125-250 lbs..lb. .19 - .22
Soda-sulphadiazin, USP, dms., works..lb.10.50 -10.60
Soda-sulphamerazin, dms., works. lb.10.50 -10.60
Soda-sulphapyridin, powd., bots., dms., works..lb. 5.00 - 5.15
Soda-sulphathiazole, USP, dms., works..lb. 3.00 - 3.15
Solvent naphtha, dms., wks.gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .28 - —
Minnequa, Colo. .....gal. .28 - —
high-flash, dms., works....gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. to 3¼c. per gal..gal. .27 - —
Sorbitol, com'l, dms., c.l., works. lb. .25½- —
l.c.l., works .....lb. .26 - .35
Soybean flour, industrial, bgs., c.l., dlvd. E. of Rockies..lb. .068 - —
truckloads, same basis..lb. .070 - —
small lots, same basis..lb. .072 - —
Protein, bgs., 40,000 lbs., works. lb. .25½- —
20,000 lbs., works.....lb. .25¾- —
smaller lots, works.....lb. .26 - .29½
Spearmint leaves, bls.....lb. .48 - .49
Spikenard root, bls.....lb. .50 - .55



Miracles wrought by chemistry...ideas born in test tubes ...improving modern living in many ways...owe much to Sulphur.

For Sulphur is a key ingredient in countless chemicals that produce the miracles. Its principal derivative, Sulphuric Acid, is one of the cheapest and most versatile of all the chemist's tools. Carbon Bisulphide, Sulphur Dioxide and other Sulphur chemicals also play major roles in the chemical industry.

Freeport Sulphur Company has a supply on hand sufficient to meet all anticipated demands. In addition to this, underground reserves plus efficient mining methods give assurance of a steadily continuing supply.

SOME OF THE PRODUCTS REQUIRING SULPHUR

ACIDS	LUBRICANTS
CHEMICALS	MATCHES
CLEANING FLUIDS	MEDICINE
DRUGS	PAINTS
DYESTUFFS	PAPER
EXPLOSIVES	PETROLEUM PRODUCTS
FABRICS	PLASTICS
FERTILIZERS	PROCESSED FOODS
FILM	REFINED METALS
FOOD PRESERVATIVES	REFRIGERANTS
FUMIGANTS	RESINS
FUNGICIDES	RUBBER
GASOLINE	SYNTHETIC RUBBER
GLASS	SOAP
GLUE	SODA
GLYCERIN	SOLVENTS
INSECTICIDES	STEEL
KEROSENE	SUGAR
LEATHER	TEXTILES

FREEPORT SULPHUR COMPANY
OFFICES: 122 E. 42nd ST. • NEW YORK 17, N. Y.
MINES: PORT SULPHUR, LA. • FREEPORT, TEX.

SULPHUR SERVES INDUSTRY

Spruce extract, liq., reg., tanks, works..lb. .01¾- —
pwd., super, bgs., c.l., wks.lb. .05¼- —
Squawk vine, bls.....lb. .53 - .55
Squill, red, fortified, powd., bbls., bxs..lb. 1.60 - —
White, bls.....lb. .10 - .12
powd., bbls., bxs.....lb. .16 - .20
St. Ignatius beans, bgs.....lb. No stocks
St. John's bread, edible, bls...lb. .12 - .18
Starch, corn, pearl, paper bgs., c.l..100 lbs. 5.40 - —
l.c.l. .....100 lbs. 5.62 - —
Chicago, c.l. .....100 lbs. 5.02 - —
powd., paper bgs., c.l..... 100 lbs. 5.58 - —
l.c.l. .....100 lbs. 5.73 - —
Chicago, c.l. .....100 lbs. 5.13 - —

Prices for corn starch in cotton bags, 20c. higher.

Potato, bgs., c.l.....lb. .08¾- —
l.c.l. .....lb. .09¼- —
Rice, bgs., c.l.....lb. No stocks
Sweetpotato, bgs.....lb. No stocks
Wheat, bgs.....lb. .0560- .0630
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .45 - .50
Stoneroot, bls.....lb. .07½- .08
Storax, cs.....lb. 1.00 - 1.10
Stramonium leaves, bgs.....lb. .20 - .25
Seed, bgs.....lb. .20 - .21
Streptomycin, hospitals....gram. 4.00 - —
wholesalers .....gram. 3.20 - —
Strontium bromide, NF, cns., dms..cs. .50 - .55
Carbonate, 90%, bbls.....lb. .14 - .16
98%, bbls.....lb. .23 - .25
Chloride, tech., bbls.....lb. .22 - .24
mesh, 90%, bbls., works.ton.58.00 - —
Chromate, bbls., kgs., Phila.lb. .40 - .42
Iodide, jars, 25 lbs.....lb. 3.00 - 3.06
Lactate, dms.....lb. 1.30 - 1.35
Nitrate, bbls., c.l., works...lb. .07¾- —
l.c.l., works.....lb. .08¼- .08¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb. 1.25 - 1.32
Sulphate, nat., air-floated, 325 mesh, 90%, bbls., works.ton.58.00 - —
Strontium-calcium sulphide, phosphorescent, dms., works.lb. 2.50 - 2.85
Strophanthin, bots.....oz.30.00 -50.00
Strophanthus seed, Kombe, bgs. lb. 2.25 - 2.30
Strychnine, NF, powd., cns., 100 ozs..oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs..oz. 1.00 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .50 - —
tech., bbls., l.c.l., works..lb. .45 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazine, USP, dms., works. lb. 9.00 - 9.10
Sulphaguanidin, dms., works..lb. 4.50 - 4.60
Sulphamerazin, dms., works..lb. 9.00 - 9.10
Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 30-60 mesh, 10c. higher.
Sulphapyridin, powd., bots., tins, works..lb. 5.00 - 5.15
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.15
Sulphonethylmethane, kgs.....lb. 6.75 - 6.85
Sulphonmethane, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.16.00 - —
vessels, Gulf ports, contract..long tons.17.50 - —
export .....long ton.20.00 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.15 - —
precipitated, USP, bbls., kgs.lb. .18 - .30
refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works.....100 lbs. 3.50 - 3.90
heavy, bgs., c.l., works.... 100 lbs. 2.85 - —
l.c.l., works.....100 lbs. 3.20 - 3.60
light, bgs., c.l., works.... 100 lbs. 2.95 - —
l.c.l., works.....100 lbs. 3.30 - 3.60
flowers, USP, bgs., c.l., works, 100 lbs. 3.30 - —
l.c.l., works.....100 lbs. 3.65 - —
Refined sulphur flowers in bbls., 35c. higher.
rock, bbls., c.l., works.100 lbs. 2.45 - —
l.c.l., works.....100 lbs. 2.80 - —
roll, bbls., c.l., works.100 lbs. 2.65 - —
l.c.l., works.....100 lbs. 3.00 - 3.40
rubbermakers', bgs., c.l., works..100 lbs. 2.15 - 2.60
Sulphur chloride, 25-gal., dms., c.l., works..lb. .03 - .03½
l.c.l., works.....lb. .04 - .04½
10-gal. dms., c.l., works..lb. .07 - .07½
l.c.l., works.....lb. .08 - .08½
Dioxide, liquid, com'l, cyls., c.l., works..lb. .085 - —
l.c.l. .....lb. .095 - —
multi-unit cars, works..lb. .06 - —
tanks, works.....lb. .044 - —
refrigeration, cyls., l.c.l., works..lb. — - —
Iodide, bots., jars.....lb. 3.90 - 4.11
Sumac bark, grd., ex dock..ton.105.00 - —
Extract, No. 1, bbls.....lb. .10½- —
No. 2, bbls.....lb. .09 - —
crystals, bbls.....lb. .40 - —
stainless, bbls.....lb. .11 - .13½
Leaves, ex dock.....ton.105.00 - —
Superphosphate, pulverized, run-of-pile under 22% a.p.a. Balto..unit-ton. .74 - —
Florida .....unit-ton. .56 - .59
others .....unit-ton. .57 - .59

Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 88½c. per unit-ton plus frt. charges from Anaconda, Mont., in excess of $18.03 per ton; guaranteed 18, 19 or 20% a.p.a., ½c. per unit-ton higher.

triple, 48% or more a.p.a., bulk, producing point, Florida. unit-ton. .71 - —
South Carolina..unit-ton. .75 - —
Tennessee .....unit-ton. .80 - —

Prices on 48% triple superphosphate in other States and D.C., 71c. per unit-ton plus frt. charges from E. Tampa, Fla.

Superphosphate, gran., 2c. per unit-ton higher than pulverized.

Sweet basil, bls.....lb. 1.10 - 1.25

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Talc, dom., ordinary, grd., bgs., c.l., works..ton.14.50 -24.50
l.c.l., works.....ton.16.50 -30.00
Calif., bgs., c.l., wks..ton.22.00 -30.00
Pennsylvania, bgs., c.l., works..ton.11.00 -13.50
l.c.l., works.....ton.12.00 -14.50
Vermont, bgs., c.l., works. ton.14.00 - —
l.c.l., works.....ton.17.50 - —
New York, bgs., works..ton.18.00 - —
fibrous, grd., off-color, New York, bgs., c.l., works.ton.15.00 - —
325 mesh, 93-94%, bgs., c.l., works..ton.17.50 -18.00
98.95-99.95%, bgs., c.l., works..ton. No prices
98-99.5%, bgs., c.l., works. ton. No prices
imp., Canada, bgs., c.l.....ton.35.00 -45.00

Tallow, inedible, extra, loose..lb. .12¾- —
fancy, loose.....lb. .13 - —
special, loose.....lb. .12¾- —
sulphonated, 25%, dms.....lb. .07¾- .08
50%, dms.....lb. .10¾- .11
Tamarind, bbls.....lb. .12 - .12½
Tankage, animal, feed grade, 9-11% ammon., bulk, unit-ton. 7.00 - —
Chicago .....unit-ton. 7.00 - —
fert. grade, 9% ammon., 10% b.p.l., bulk..unit-ton. No stocks.
10-11% ammon., 15% b.p.l., bulk, Chicago..unit-ton. No stocks.
Tansy leaves, bls.....lb. .15 - .16
Tapioca flour, Brazilian, bgs..lb. .05¾- .10
Java, bgs. .....lb. No stocks.
Tar acid, oil, 15-18%, ret. dms., c.l., works..gal. .35 - —
l.c.l., works .....gal. .38 - —
25%, dms., c.l., works..gal. .41 - —
l.c.l., works.....gal. .44 - —
Tar, pine (see Pinetar).
Tara pods, c.l., ex dock U. S. ports..long ton. No prices.
powd., c.i.. same basis.long ton.225.00 - —
Tarragon herb, bgs.....lb. .58 - .60
Leaves, bgs. .....lb. 1.20 - 1.25
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .41 - —
dms. .....lb. .41½- .44
USP, powd., bbls., dms., kgs. lb. .45 - .48
Terpin hydrate, com'l, bbls., c.l., lb. .24¼- —
l.c.l. .....lb. .25 - .25¾
USP, cryst., bbls., dms...lb. .70 - .75
powd., bbls., dms.....lb. .75 - .80
Terpineol, Alpha (see A).
com'l, dms., c.l., South.....lb. .13½- —
l.c.l., South .....lb. .14 - —
tanks, South .....lb. .13 - —
pure, dms. .....lb. .45 - .56
extra, dms. .....lb. .52 - .71
Terpinglycol ether, dms. (extra), c.l., works..lb. .19¼- —
l.c.l., works .....lb. .20 - —
tanks, works .....lb. .19 - —
Terpinyl acetate, extra, cns., dms. lb. .80 - 1.10
prime, cns., dms.....lb. .70 - 1.08
Terra alba (see Gypsum).
Tetrachloroethane, dms., works, lb. .08 - .08½
Tetrachloroethylene, NF VI 55-gal. dms., works..lb. .20 - .21½
smaller dms., works.....lb. .23½- .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works..lb. .65 - —
Tetrapotassium phosphate (see Potash phosphate).
Tetrasodium pyrophosphate (see Soda pyrophosphate).
Thallium sulphate, 99%, bots., works..lb.20.00 - —
Theobromine, bots., kgs.....lb. 4.60 - 4.80
Thiamine hydrochloride, dms., 100 grams or more..kilo.160.00 - —
Thiocarbanilide, dms. .....lb. .24 - —
Thiouracil, dms., works.....lb. 5.50 - 5.60
Thiourea, CP, dms.....lb. .55 - .56
Thorium nitrate, cs., works...lb. 3.00 - —
Thyme, French, bgs.....lb. .16 - .16⅛
futures, bgs. .....lb. .15½- .16
Spanish, bls.....lb. .11½- .12
Thymol, NF, cns.....lb. No prices
Iodide, NF, dms.....lb. 4.25 - —
Timbo root (see Cube root).
Tin crystals, bgs., bbls., works. lb. .55 - .60
Metal .....lb. .80 - —
Bolivian .....lb. .80 - —
Straits .....lb. .80 - —
Oxide, bbls.....lb. .82 - —
Tetrachloride, anhydr., dms., works..lb. No stocks
Titanium dioxide, anatase, chalk resistant, bgs., c.l., dlvd..lb. .16½- —
l.c.l., dlvd. .....lb. .17½- —
rutile, nonchalking, bgs., c.l., dlvd., M..lb. .18½- —
l.c.l., dlvd. .....lb. .19½- —
plain, bgs., c.l., dlvd.....lb. .16½- —
l.c.l., dlvd. .....lb. .17½- —
Hydride, cns., works.....lb. 7.00 - 8.00
Pigment, barium base, bgs., c.l., dlvd..lb. .06½- —
l.c.l., dlvd. .....lb. .07 - —
Calcium base, bgs., c.l., dlvd. lb. .06¼- —
l.c.l., dlvd. .....lb. .06¾- —
Calcium-rutile base, bgs., c.l., dlvd..lb. .06¾- —
l.c.l., dlvd. .....lb. .06¾- .06¾
Magnesium base, c.l., dlvd.lb. No prices
l.c.l., dlvd. .....lb. No prices

Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ½c. higher.

Tetrachloride, CP, 55-gal. dms., works..lb. .57 - —
smaller pkgs., works....lb. .65 - 1.22
technical, 55-gal. dms., works lb. .82 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns.....lb. 3.45 - 3.65
Toluol (toluene) 2°, indust., ret. dms., works..gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo...gal. .23 - —

Prices on toluol from petroleum, tanks delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Chicago, 23c. (2¾c.); Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (1 6/10c.); La., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; N. C., 25c. (5c.); Pa., 23c. (2¾c.); S. C. 25c. (5c.); Tenn., 23c. (3¾c.); Va., 24c. (3½c.); W. Va., 23c. (2¾c.).

caustic soda

soda ash

They're still in short supply, but . . .

In order to increase production of Caustic Soda, Soda Ash, and other basic chemicals, Wyandotte Chemicals Corporation has plans completed, and in some cases equipment placed, to pump each day—aside from brine—15,000,000 more gallons of water . . . to quarry and mine 120,000 more tons of limestone and coal a year . . . and to increase material-handling equipment to put 131,396,000 more pounds per day of raw material and processing fluids into manufacturing operations.

But this is only part of the job to be done before there can be *any* increased production of Caustic Soda and Soda Ash.

Enormous castings must be completed for new lime-kilns. Other equipment, including a 310-ton, 15-story distiller, heavy carbonators and absorbers, must be "tailor-made" and placed into operation.

In spite of critical shortages of steel, building materials and heavy machinery, Wyandotte is making progress on its twenty-five million dollar plant expansion program.

Meanwhile, we are allocating the available supply of Caustic Soda, Soda Ash and other essential chemicals with the utmost fairness to present Wyandotte customers.

WYANDOTTE CHEMICALS CORPORATION
WYANDOTTE, MICHIGAN • OFFICES IN PRINCIPAL CITIES

Soda Ash • Caustic Soda • Bicarbonate of Soda • Calcium Carbonate • Calcium Chloride • Chlorine Hydrogen • Sodium Zincates • Aromatic Intermediates • Dry Ice • Other Organic and Inorganic Chemicals

Wyandotte
REG. U. S. PAT. OFF.

Toluol, 1°, nitration, ret. dms., works..gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo...gal. .23 - —
Toluene (see Toluol).
Toluidin base, distilled, kgs...lb. 1.00 - —
Tonga, 50% bark and vine, bbls. lb. .90 - .91
Tonka beans, Angostura, cks..lb. 1.70 - 1.80
Brazilian, Surinam, cs.....lb. .85 - .90
Totaquine, USP XII, 100-oz. lots. oz. .52 - —
Triacetin, dms., works.....lb. .26 - —
Triamylamine, dms., c.l., works. lb. .98 - —
l.c.l. .....lb. 1.01 - —
Tributyl citrate, dms.....lb. .41 - .49
smaller pkgs.....lb. .52 - —
Phosphate, dms., l.c.l., frt. alld. E. of Rockies..lb. .72 - —
Tributylamine, dms., c.l., works lb. .78 - —
l.c.l., works.....lb. .81 - —
Trichlorobenzene, dms., c.l., wks. lb. .11 - —
l.c.l., frt. alld.....lb. .12 - —
Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works.....lb. .17 - —
Trichloroethylene, dms., c.l., Zone 1, works, frt. alld..lb. .06 - —
Zone 2, frt. alld.....lb. .06½- —
Zone 3, frt. alld.....lb. .09 - —
Zone 4, ex whse.....lb. .09 - —
Trichloroethylene, l.c.l. prices ½c. higher Zones are—(1) Conn., Del., Ill., Ind., Ia. Ky., Me., Md., Mass., Mich., Minn., Mo N. J., N. Y., N. C., Ohio., Pa., R. I., Tenn. Vt., Va., W. V., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.
Tricresyl phosphate, coaltar base, dms., c.l., dlvd..lb. .33 - —
l.c.l., dlvd.....lb. .33½- —
tanks, dlvd.....lb. .32 - —
petroleum base, dms., c.l., dlvd..lb. .37 - —
l.c.l., same basis.....lb. .37½- —
tanks, same basis.....lb. .36 - —
Triethanolamine, dms., c.l., frt. alld. in E..lb. .19½- —
l.c.l., same basis.....lb. .20½- —
tanks, same basis.....lb. .18½- —
Triethyl phosphate, cns.....lb. .40 - —
Triethylamine, dms., c.l., works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%..lb. .36 - —
tanks, works, basis 100%....lb. .30 - —
Triethyleneglycol, dms., c.l., frt. alld. in E..lb. .18½- —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .17½- —
Trimethylamine, anhydrous, cyl., works, frt. alld. E. of Miss., 100% basis..lb. .35 - —
solution, dms., c.l., frt. alld. E. of Miss., 100% basis..lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. alld..lb. .26 - —
l.c.l., same basis.....lb. .27 - —
Tripoli, air-floated, bgs., c.l., works..ton.21.50 - —
double-grd., bgs., c.l., works.. ton.17.50 - —
once-grd., bgs., c.l., works.ton.16.00 - —
Trisodium phosphate (see Soda phosphate tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 99.9+%, dms., works..lb. 2.85 Nom.
Oxide kgs., same basis.....lb. 4.75 Nom.
Turmeric root, Alleppey, bls., futures..lb. .20½- .21
powd., bbls. .....lb. .27 - .28
Haitian, bls.....lb. .15½- .16
Jamaica, futures, bls.....lb. .15 - .15½
Madras, bgs. .....lb. .17½- .18
Turpentine, gum (see Naval Stores, Protective Coatings market).
wood, d.d., dms. extra, c.l., works, South..gal. .61 - —
l.c.l., same basis.....gal. .62 - —
tanks, wks., South.....gal. .55 - —
steam-dist., l.c.l., dms., incl., East..gal. .86 - —
tanks, South.....gal. .65 - —
Sulphate, ret. dms., East..gal. .70 - .75

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium, oxide, black, bgs..lb. 2.55 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 40% N., bgs., c.l., works or ship, pts..ton.73.00 - —
l.c.l., ship, pts.....ton.75.50 -80.50
fertilizer comp., 42% N., bulk c.l., works or Atlantic or Gulf ports..ton.57.40 - —
fixed ammonia content, usual Atlantic and Gulf ports, NH_3..ton.116.80 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.59.00 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va., NH_3 ton.112.80 - —
C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.
Uva ursi leaves, bls.....lb. .15 - .16

V

Valerian root, Belgian, NF, bls. lb. .56 - .58
Indian, bls. .....lb. .40 - .41
Valonia, beards, bgs., ex dock, ton.68.00 -70.00
Cups, bgs., ex dock.....ton.55.00 -56.00
Extract, powder, bgs., ex dock, lb. .11825- —
Vanadium pentoxide, CP, bgs., cns, works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins..lb. 7.75 - 8.50
Mexican, cuts, tins.....lb. 9.50 -10.00
whole, tins.....lb.10.50 11.00
Tahiti, tins .....lb. 4.00 - 4.25
Vanillin, ex eugenol, tins, 25 lbs. or more..lb. 4.50 - —
smaller lots, tins.....lb. 4.55 - 4.65
ex guaicol, tins, 25 lbs. or more. lb. 3.00 - —
smaller lots tins.....lb. 3.05 - 3.15
ex lignin, tins, 25 lbs. or more, lb. 3.00 - —
smaller lots tins.....lb. 3.05 - 3.15
Venice turpentine, artif., cns..lb. .24 - .25
Verdigris, bbls., bgs.....lb. .22 - .23
Vinyl acetate, cbys., works....lb. .25 - —
dms., c.l. works.....lb. .15½- —
l.c.l., works .....lb. .16½- —
tanks, works .....lb. .14 - —
Ether, bots., 75 c.c., less 20% and 20%..bot. 1.50 - —
50 c.c., same basis....bot. 1.05 - —
25 c.c., same basis....bot. .65 - —
Trichloride (see Trichloroethane)
Viosterol, bots 100 million USP units..mil. units. .04 - —
1 billion USP units mil. units. .05 - —
100 million USP units..mils. units. .07 - —
Vinylpyridin, ret. dms., works.lb. 1.50 - —
Vitamin A (see Oils, codliver, fishliver)
A concentrate, dms., works.. mill. units. .40 - .45
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice Bran and Yeast).
B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver, and fishliver, calciferol, and Viosterol).
D_2 (see Calciferol).
E (see Alphatocopherol and oil, wheatgerm).
G (see Riboflavin).
P-F (see Acid, nicotinic, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo, root bark, bls.....lb. 1.25 - 1.30
tree bark, bls.....lb. .45 - .50
Wattle bark, merchantable bags, f.a.s..ton.64.00 -65.00
fair average, bgs., f.a.s.. ton.66.00 -67.00
extract, liquid, 35% tannin, bbls., works..lb. .06 - .07
tanks, works.....lb. .05½- .06¼
solid, E. Afr., 61% tannin, in bond, ex dock..lb. .06⅞- —
S. Afr., 62% tannin, ex dock, in bond..lb. .07 - —
Wattle extract prices based on $20 freight and $1.00 insurance per long ton.
Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs. .....lb. No stocks
Bees, bleached, USP, white, bricks, cakes, cs..lb. .70 - .71
slabs, bgs. .....lb. .69 - .70
crude, African, bgs.....lb. .54 - .55
Western hemisphere, bgs.lb. .54 - .55
refined, yellow, bricks, bgs.lb. .58 - .59
slabs, bgs. .....lb. .57 - .58
Candelilla, crude, bgs.....lb. .68 - .68½
refined, bgs. .....lb. .72 - .73
Powdered, candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, No. 3, bgs., ton lots..lb. 1.00 - 1.05
North Country, No. 2 bgs., ton lots..lb. 1.20 - 1.25
No. 3, bgs., ton lots....lb. 1.10 - 1.15
refined, bgs., ton lots....lb. 1.25 - 1.30
yellow, No. 1, bgs., ton lots, lb. 1.35 - 1.40
No. 2, bgs., ton lots....lb. 1.33 - 1.38
Powdered carnauba prices, same differentials as powdered candelilla.
Caresin, dom., 132°-136° m.p, bgs..lb. .16 - .16½
138°-140° m.p., bgs.....lb. .18 - .18½
158°-162° m.p., bgs.....lb. .30½- .31
Japan, bgs. .....lb. .35 - .40
Microcrystalline, 170°-175° A.S.T.M., amber, 30 tons yearly contract, group 3 works..lb. 16 - —
smaller lots, same basis. lb. .16 - .17½
black, ctns., 30 tons, same basis..lb. .14½- —
smaller lots, same basis.lb. .14½- .15½
white, ctns., 80 tons, same basis..lb. .27 - —
smaller lots, same basis.. lb. .27 - .29
190°-195° m.p., ASTM, amber, ctns., 30 tons, same basis..lb. .18 - —
smaller lots, same basis. lb. .18 - .19
190°-195° m.p., ASTM, black, ctns., 30 tons, same basis. lb. .16½- —
smaller ctns., same basis. lb. 16½- 17½
white, ctns., 30 tons, same basis..lb. 31 - —
smaller lots, same basis. lb. .31 - .32
Montan, crude, bgs.....lb. .50 - .52
Ouricury, crude, bgs., ton lots. lb. .58 - .60
refined, bgs., ton lots.....lb. .65 - .67
Ozokerite, dom., 180-190 F., c.l. lb. .36 - —
182-184 F., bgs., c.l.....lb. .31 - —
182-183 F., bgs., c.l.....lb. .27 - —
Spermaceti, blocks, cs.....lb. .45 - .59
cakes, cs.....lb. .46 - .51
White lead (see Lead, white).
White, precipitate, powd., dms.. 50 lbs. or more..lb. 2.27 - —
White pine bark, rossed, bls..lb. .21 - 25
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, works, St. Louis..ton. 9.50 - —
smaller lots, works, St. Louis..ton.12.50 - —

B_6 • 1937—A laboratory curiosity • 1947—Large scale commercial production

Help for the Drug Industry!

Here is the assuring news you have been waiting for. The promised expansion of our pyridoxine productive capacity was completed early in 1947 and,

You no longer need wait to—

- INCREASE "TOKEN" B_6 POTENCIES TO DESIRED LEVELS
- RESTORE DISCONTINUED B_6 PRODUCTS
- INTRODUCE NEW PRODUCTS CONTAINING B_6
- USE THE VERY HIGH B_6 LEVELS DESIRED FOR NEW THERAPEUSIS

As our customers know, early industry demand for pyridoxine hydrochloride soared beyond all productive capacity, but Roche laboratories worked out a new synthesis to use on a large commercial scale. However war-time restrictions on equipment and shortages of raw materials beyond control made progress discouragingly slow. Then new medical use in high dosage pyramided requirements and a new large B_6 plant unit became a most urgent post-war "must" at Roche Park.

To those whom we struggled to supply, our sincere thanks again for your patience. To pharmaceutical manufacturers contemplating new moves with B_6 we extend a cordial invitation to establish your source of supply at Roche Park, where production "By The Tons" of thiamine, riboflavin, ascorbic acid and other bulk vitamins is an accomplished fact.

PYRIDOXINE HYDROCHLORIDE 'ROCHE'

HOFFMANN-LA ROCHE, INC., VITAMIN DIVISION, NUTLEY 10, NEW JERSEY

Whiting, limestone, wet-grd., air-floated, 325 mesh, 99½%, bgs., c.l..ton.14.50 -27.50
200 mesh, 99¾%, bgs., c.l. ton. No prices
90%, bgs., c.l.....ton. No prices
water-floated, extra, gilders, bgs., c.l..ton.14.50 -28.90
gilders, bgs., c.l.....ton. No prices
putty grade, bgs., c.l..ton.13.00 - —
surface treated, bgs., c.l., Ohio, works..ton.30.00 - —
Paris, white, bgs., c.l.....ton.25.00 -31.00
l.c.l. .....ton.25.00 -29.00
precipitated, bgs., c.l.....ton.14.00 -15.00
l.c.l. .....ton.18.00 -20.00
Wild cherry bark, thick, bls .lb. .06 - .07
thin, natural, bgs.....lb. .18 - .20
rossed, green, bls.....lb. .24 - .26
Wild indigo root, bls.....lb. .30 - .31
Witch hazel leaves, bls.....lb. .26 - .27
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., N. Tonawanda, N. Y...ton. No prices
60 mesh, same basis.....ton. No prices
80 mesh, same basis.....ton. No prices
100 mesh, same basis.....ton. No prices
Woodflour, in bags, 25c. each extra, returnable.
Wormseed, American, bgs....lb. .17 - .18
Levant, bgs.....lb. 4.25 - 4.30
Wormwood, bls.....lb. .50 - .60

X

Xanthorrhiza, bls.....lb. .28 - .30
Xylidin, mixed, dms.....lb. .38 - .38½
Xylene (see Xylol).
Xylol (xylene), indust., ret. dms., works..gal. .28 - —
tanks, E. of Omaha, frt. alld gal. .28 - —
West Minnequa, Colo..gal. .28 - —
Prices on xylol from petroleum, tanks, delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (1 8/10c.); La., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; N. C., 25c. (5c); Pa., 23c. (2¾c.); S. C. 25c. (5c); Tenn. 23c. (3¾c.); Va., 24c. (3½c.); W. Va., 23c. (2¾c.); the Chicago price is 20c. f.o.b. terminal.
10°, ret. dms., works.....gal. .30 - —
tanks, E. of Omaha, frt. alld. gal. .25 - .26
5°, ret. dms., works.....gal. .38 - —
tanks, E. of Omaha, frt. alld. gal. .33 - —
8°, ret. dms., works.....gal. .43 - —
tanks, E. of Omaha, frt. alld. gal. .38 - —

Y

Yara yara, cryst., bots., cns..lb. 1.62 - 1.75
Yeast, brewer's dry, 50 B units, dms..lb. .35 - —
90 B units, dms.....lb. .45 - —
200 B units, dms.....lb. .50 - —
300 B units, dms.....lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .32 - —
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.
Benzidin, bbls., dlvd.....lb. 1.60 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies..lb. 2.40 - —
Lithopone, all shades, bbls., frt. alld. E. of Rockies..lb. .85 - —
Los Angeles and San Francisco, ex whse. 1c. per lb. higher.
Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss. R., includ. Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts.. lb. .24 - —
Chrome, CP, bbls., dlvd. Ala., Fla., Ga., La. (Shreveport), 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex. 1¼c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Dutch, pink, bbls.....lb. .09 - .11
Hansa, bbls., same basis as chrome..lb. 1.43 - —
primrose, bbls., same basis. lb. 1.90 - —
Bethlehem, Easton, Pa., lb. .04¼- —
l.c.l., same basis....lb. .05 - —
synthetic, bbls., c.l., works, lb. .07¼- —
l.c.l., works .....lb. .07½- —
Iron oxide, nat., bbls., c.l., yellow, bgs., works.....lb. .02¾- .03¾
French type, bgs., c.l.....lb. .03¾- —
l.c.l. .....lb. .04 - —
Mercury oxide, bbls., 1,000 lbs. lb. 2.23 - —
smaller lots .....lb. 2.25 - —
Ocher, American, golden, bgs., works..lb. .01½- .02¾
Persian orange (see O).
Zinc, bbls., same basis as chrome..lb. .17½- —
Navy spec. type bbls., contract..lb. .19 - —
Yellow dock root, bls.....lb. .29 - .30
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls.....lb. .30 - .31
Yohimbine hydrochloride, vls..oz. 3.25 - 4.00

Z

Zein, bgs., 1,000 lbs., works...lb. .25 - —
smaller lots, bgs.....lb. .30 - —
Zinc acetate, tech., bbls., c.l..lb. .20 - —
USP, bbls.....lb. .26 - .27
kgs. .....lb. .27 - .29
Arsenite bgs., c.l., frt. alld. E. of Rockies..lb. No stocks
l.c.l., same basis.....lb. No stocks
Carbonate, tech., rubbermakers' grade, bbls., works..lb. .10¾- .11¾
USP, precip., powd., bbls..lb. .35 - —
dms. .....lb. .40 - —
kgs. .....lb. .37 - —
Chloride, tech., fused, dms., c.l., works..100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.55 - —
gran., bbls., c.l., works... 100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.40 - —
solution, 50%, dms., c.l., works..lb. .0365- —
l.c.l., works.....lb. .0425- —
tanks, works.....lb. .0300- —
USP, dms.....lb. .30 - .31
jars. .....lb. .35 - .36
Chromate (see Yellow, zinc).
Cyanide, kgs., works.....lb. .34 - .35
Dust, bbls., c.l., dlvd.....lb. .1250- .1300
l.c.l. .....lb. .12¾- .13
Fluoride, bbls., works.....lb. .18 - .19
Hydrosulphite, dms., works..lb. .16 - —
lb. .16 - —
Iodide, NF, jars.....lb. 4.65 - —

Zinc laurate, bbls.....lb. .32 - .38
Metal, slabs, N. Y.....lb. .11 - —
East St. Louis.....lb. .10½- —
Naphthenates, 8% Zn, liquid, dms..lb. .19¾- —
10% Zn. liquid, dms.....lb. .24 - —
14% Zn. solid, dms.....lb. .31¾- —
Oxide, pigment, dom., acicular, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .09½- —
l.c.l., works.....lb. .09¾- —
American process, com'l, lead-free, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .09½- —
l.c.l., works.....lb. .09¾- —
leaded, 5%, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .09½- —
l.c.l., works.....lb. .09¾- —
35% or more, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .11¼- —
l.c.l., works.....lb. .11¾- —
50%, bgs., c.l., f.o.b. ship't point, frt. alld., lb. .12¾- —
l.c.l., works.....lb. .12¾- —
French process, com'l, lead-free, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .11¾- —
l.c.l., works.....lb. .12 - —
green seal, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .11¼- —
l.c.l., works.....lb. .11½- —
white seal, bgs., c.l., f.o.b. ship't point, frt. alld..lb. .11¾- —
l.c.l., works.....lb. .12 - —
red seal, bgs., c.l., f.o.b. ship't point, frt. alld., lb. .10¾- —
l.c.l., works.....lb. .11 - —
USP, ctns., c.l., f.o.b. ship't point, frt. alld..lb. .12¾- —
Zinc oxide Pac. Coast prices ½c. higher, bbls. prices ¼c. higher than bgs.

Zinc resinate, fused, 9% Zn, powd., dms..lb. .19½- —
Silicofluoride, bbls.....lb. .15 - .16
Stearate, USP, ctns., 2,000 lbs. to c.l..lb. .47 - —
smaller lots .....lb. .48 - —
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld.... 100 lbs. 4.15 - —
l.c.l., same basis.100 lbs. 4.90 - —
flake, 25½% Zn., bgs., c.l., same basis...100 lbs. 4.80 - —
l.c.l., same basis....100 lbs. 5.55 - —
powd., 36% Zn., bgs., c.l., same basis..100 lbs. 6.75 - —
l.c.l., same basis.100 lbs. 7.50 - —
Zinc sulphate in bbls., 40c. higher.
Sulphide, pure, bgs., c.l., dlvd. lb. .10 - —
l.c.l., works.....lb. .10¼- —
barium pigment, works, bgs., c.l., dlvd..lb. .07 - —
l.c.l., works .....lb. .07½- —
Calcium pigment, works, bgs., c.l., dlvd..lb. .07 - —
l.c.l., works .....lb. .07½- —
Fluorescent pigment, works, frt. alld..lb. 1.00 - 3.00
Magnesium pigment, bgs., c.l., dlvd..lb. .07 - —
l.c.l., dlvd.....lb. .07½- —
Zinc sulphide and pigment, Pac. coast prices ½c. higher; bbl. prices ¼c. higher than bgs.
Sulphocarbolate, NF, gran., bbls., dms..lb. .28 - .30
Sulphoxylate, formaldehyde, basic, dms., works., frt. alld..lb. .17 - —
normal, dms., works, frt. alld..lb. .35 - —
Yellow (see Yellow, zinc).

Zinc-ammonia chloride, bbls., c.l., works..100 lbs. 7.15 - —
l.c.l., works.....100 lbs. 7.55 - —
Zinc-cadmium sulphide, fluorescent, cns., works, frt. alld..lb. 2.00 - 2.80
Zinc-iron oxide pigment, bgs., c.l., dlvd..lb. .07¾- —
l.c.l., dlvd. E. of Rockies. lb. .08¼- —
Pac. cst .....lb. .08¼- —
ex whse., Pac. cst..lb. .08¾- —
Zirconium acetate, solution, bbls., works..lb. .25½- —
Hydride, cns., works.....lb. 7.00 - 8.00
Nitrate, bgs., works.....lb. 3.00 - 4.00
Oxide, 88%, grd., bbls., c.l., works..lb. .22½- —
l.c.l. .....lb. .23¾- —
white, 98½%-99%, grd., bgs., works..lb. .80 - —
milled, electric, fused, 2,000-9,999 lbs., works.lb. .46 - —
500 lbs. and less, same basis..lb. .46½- .49
Oxychloride, cryst., bbls., 5 tons, works..lb. 29¼- —
Sulphate, basic, cake, bbls., c.l., works..lb. .18 - —
l.c.l., works.....lb. .18½- .20
smaller lots, works.lb. .30 - .31½

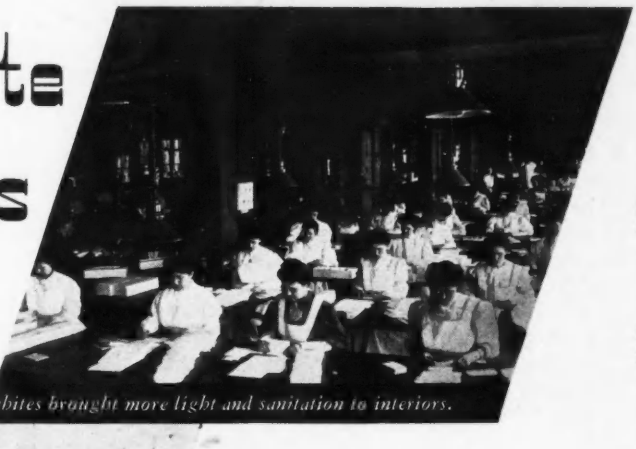
Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the June 2 issue of OPD.

HIGHLIGHTS OF PAINT PROGRESS

No. 5 of a series

1905 White Enamels Help Banish Mauve Decade....



Developed in the early 1900's, mill whites brought more light and sanitation to interiors.

THE mauve decade stood watch over the dying 19th Century. Home interiors reflected a mourning mood. It was the drab period of lavender and old lace, red plush, prickly horsehair, somber dark woods, flossy gimcracks and dust-catching furnishings. Depressing deep browns, greens and purples of walls and draperies intensified the solemn atmosphere.

The spritely young years of the 20th Century swept out the dust and gloom, and opened the door to a new era of decoration—one of clean simplicity and cheerful brightness. Ready-mixed paints played an important part in this transformation. Refreshing white enamels on doors, staircases, wainscoting and baseboards helped to add new luster to home life.

Expanding business and industry, too, in tune with the times, found hidden profits in the use of paint as light on unclean walls and dingy ceilings. With easy-to-clean white enamels on these surfaces, they brought cheery sunlight and sanitation into their offices, mills and factories.

The young paint industry lengthened its stride to meet these increasing demands for white finishes. It developed new and improved products to meet new service requirements. It built long-lasting brightness and scrub-resisting luster into enamels through the use of French Process zinc oxide in specially-cooked long-oil vehicles . . . and greater, more economical hiding power through the use of a new pigment—lithopone. And for those new enamels which contained both zinc oxide and lithopone it coined an appropriate name—Mill Whites.

1848-1948

Partners in Paint Progress

First American producer of French Process zinc oxide (1893), also a pioneer producer of lithopone (1903), The New Jersey Zinc Company set the pigment stage for the production of white long-oil enamels.

The Paint Industry — New Jersey Zinc

THE NEW JERSEY ZINC COMPANY
Established 1848
160 Front Street, New York 7, N. Y.

OPD—6-9-1947

Oil, Paint & Drug Reporter

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Directed 1900-1942, by Harry J. Schnell
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Volume 151 June 9, 1947 Number 23

Foreign Trade Ideas Are Vague

With all the advances that have been made in economic thinking since the beginning of the present century, the concepts of economists on almost any aspect of any problem are still as far apart as are those of fundamentalists and evolutionists on the origin of the human race. And therein lies the excuse for cycles which have no reason to occur, for refusal to leave habitual ruts and find prosperity when it really is "just around the corner."

This difference has been brought most clearly to public attention in the increasing debating of the role of export trade in the commercial economy of the United States—and how that is to be learned and performed. Some economic groups are still at odds over whether the United States can sell goods to other nations without providing the buyers with dollars with which to buy. There are a few who regard export trade as a downhill stream. But, the biggest arguments come on whether the United States must maintain its still heavy volume of export sales or fall into a most debilitating, perhaps disastrous, depression. On top of it all is a third controversial matter: to what extent will it be necessary for industries which, more or less actually, must have a relatively large export market to take pay in the goods of other industries. Some of the experiences in that area a decade or so ago were not at all satisfactory.

Those are but a few of the complexities of the problems which attend the international discussions of increased reciprocity in world trade. When leading economic publicists on the same day declare, some of them, that the "lack of dollars abroad holds danger of depression in United States," and others, "danger of depression advanced to scare Americans into phony deals," and some heads of important industrial groups contend that the United States can safely increase its imports to the volume of current exports, while others wailingly plead that there be no helping of import competition, is it any wonder that the advocates of the open range in world trade go right along tearing down fences? No two groups can agree on what the barriers are for; so, why let them interfere? Economic thinking is still far, far from scientific.

Democracy's Ills Are Internal

The action of Harvard University in permitting the formation of a chapter of American Youth for Democracy in the student body has fanned the flames of all anticommunistic ardors and set adrift a new raft of howlers for sacrosanct "American principles." Harvard officials admit that AYD has quite justly been called a Communistic organization. But, they feel that, in full recognition of that fact, the organization is best kept out in the open. They know that denying it the right to enroll student members in a specific group would only lead to infiltration and undercover activities in other groups. It is their feeling that the American principle of democracy must be able to hold its own in open competition with other sociopolitical beliefs. They are right in every way.

Prohibition does not work, no matter what the belief or practice at which it is aimed. That which is checked at one point breaks out, usually in a more malignant form, at another or becomes a hidden canker which destroys undetected. Breaking down symptoms never did, never can, eradicate a disease or a disbelief.

Punitive measures, not prohibitive, are the only remedy for subversive sociopolitical practices. Freedom of belief is as much a principle of democracy as is freedom of speech. Both can be illegal, and when either is, it should be punished. As the ancient saw has it:—"You can't hang a man for thinking." But, you can punish him for expounding certain thoughts and hang him for translating some into action.

If there were less concern about the holding, and even the preaching, of disbelief in democracy and more appropriate handling of the evils on which such disbelief feeds, democracy—the American principle—would need have no fear of empty yammerings about a more desirable promised land.

Washington Talks

—Continued from page 5

case of cosmetics and toilet preparations information is being asked on how much is produced for the company's own labeling and how much for others.

Industry is being asked to give careful consideration to the schedules now being sent out and that its views and comments be made known to the bureau. The agency wants the schedules to conform to the ideas of industry as to what information is most desirable. The time to make these views known is now and not after the census has been taken. It is too late then.

Every effort should be made to fill out the forms correctly when they are finally submitted. Incorrect answers will naturally throw the totals out of line, and the information either becomes misleading or useless. Incorrect answers also mean that the census takers will have to make return visits, which slows down the work of analyzing the figures and publishing the results.

Cattle Tick Killer

Department of Agriculture scientists are getting some very good results in the use of a new insecticide, hexachlorocyclohexane, against cattle ticks. Even better results can be obtained, they report, when HCH (which will probably be the popular name for the new killer) is used in combination with DDT.

Although the cattle-fever tick has been eradicated in this country as a result of the federally supervised campaign of dipping cattle in arsenical liquids, the department remains interested in tick eradication because of the quarantine against ticky cattle coming into the country. Federal veterinarians need to know the tick-killing abilities of any treatment a Mexican rancher might apply, for example.

In practical sprayings of ticky animals, it was found that DDT and HCH were each much more effective than cube (rotenone) spray, or the standard arsenical dip that finally beat the tick in the United States. Further field trials will be needed to show what percentages will prove reliable in making cattle safe for entry.

Alcohol Production Cheapened

Considerable interest is being shown by industry in a new development of the Northern Research Laboratory scientists that may prove very beneficial in reducing costs of alcohol and thus bring nearer the goal of producing motor fuels from farm wastes. The laboratory has developed a material known as fungal amylase, which is an enzyme that is produced by a fungus organism which can be grown on the waste liquors from a distillery.

The product of this organism has a very great activity for converting starch to sugar and the cost of its production is very much less than the cost of the production of malt; so it offers an opportunity in the production of alcohol or alcohol motor fuels of making a saving in the process of conversion of starch to sugar to alcohol. Malt at 6 cents a pound is equivalent to about 5 cents a gallon in the cost of production of alcohol. The use of fungal amylase may cut the cost of production of alcohol by possibly as much as 4 cents a gallon. Not only does it reduce the cost of production but it increases the yield of alcohol that is obtained from a given amount of grain.

A great deal of interest has been shown by industry in the development; in fact the director of research of one of the large industrial alcohol concerns recently called at the Northern laboratory to secure detailed information and cultures of the organisms on which it is based.

Business Directories Listed

The commerce department's listing of American business directories, which help businessmen locate sources of supply and lists of prospective customers' for their goods and services, is proving to be one of the department's best sellers. Demand for the publication has been so great that in spite of the calls made on the department by Congress to cut down spending, it has been decided to issue a second edition.

The publication covers 198 pages and includes all directories of American business firms know to the inquiry and reference section of the department. It divides its listing of directories into two groups:—(1) Kinds - of - business classifications, which appear in alphabetical order, and (2) a general classification for directories that include the names and addresses of a wide variety of businesses.

Copies are now coming off the presses and can be obtained either from the field offices of the department or the Government Printing Office. It carries the designation, Industrial Series No. 67, and is priced at 65 cents.

Free Seeds in New Guise

It hasn't been too long ago that congressmen were the brunt of many a joke about how they used to fill the mails with packets of free seeds going to deserving constituents along about planting time in the years of congressional elections. The practice finally became so burdensome to the Department of Agriculture which supplied the seeds that it fell of its own weight.

Now the question is being raised whether an attempt is not being made to revive it in a slightly different form—this time, instead of distributing free seeds, the congressmen will be distributing free fertilizers. There are some wags who profess to see this underlying possibility in the pending bill putting the government into the fertilizer business.

The bill would distribute highly concentrated phosphates to about 2 percent of the farmers throughout the country. It isn't hard to guess who will be the ones to get the free fertilizer.

OPD Forum

Outlet for Individual Opinion

(Anonymous communications will not be recognized, but a signer's name will be withheld at request.)

Estrogenic Standards

The Editor,
Oil, Paint and Drug Reporter.
Sir:—

Inasmuch as the estrogenic material most widely used clinically and most available commercially is the natural estrogenic complex derived from pregnant mares' urine, it is doubly unfortunate that the USP committee on revision has been unable to set up standards of composition, identification, and assay for this substance. The lack of a USP monograph for natural estrogenic substance has been keenly felt for the past ten years, and will be even more keenly felt in the future.

Two reasons may be assigned for the failure of the committee to agree on a monograph for natural estrogenic substance for the XII revision:—(1) There are wide natural variations in the composition of the material due to variations in the raw material and in the manufacturing processes, and (2) the natural desire of the various manufacturers to present evidence to the committee on revision that the specifications which they have set up for the product of their own manufacture are especially suitable for official specifications.

With respect to the first difficulty, we feel sure that a cooperative effort, sponsored perhaps by the A.P.M.A. and A.D.M.A. in conjunction with the USP committee on revision, would soon set the normal limits of composition of the natural estrogenic complex from pregnant mares' urine. To this cooperative effort we would be happy to submit certain new and effective methods which we have developed, but not yet published, for the differential chemical assay of natural estrogenic substance. We feel certain that other major manufacturers of this material would be as generous in sharing their control technique.

Regarding the second stumbling block we are again certain that when the normal limits of composition of natural estrogenic substance are set by the coordinated efforts of the various major suppliers, these manufacturers will find that their ethically produced material will meet the USP requirements and that these requirements will make for fairer competition among the manufacturers and for even better and more effective preparations for the clinician.

We would like to have comments and suggestions.

Coast Chemical Company.
S. S. Carlat.

Los Angeles.

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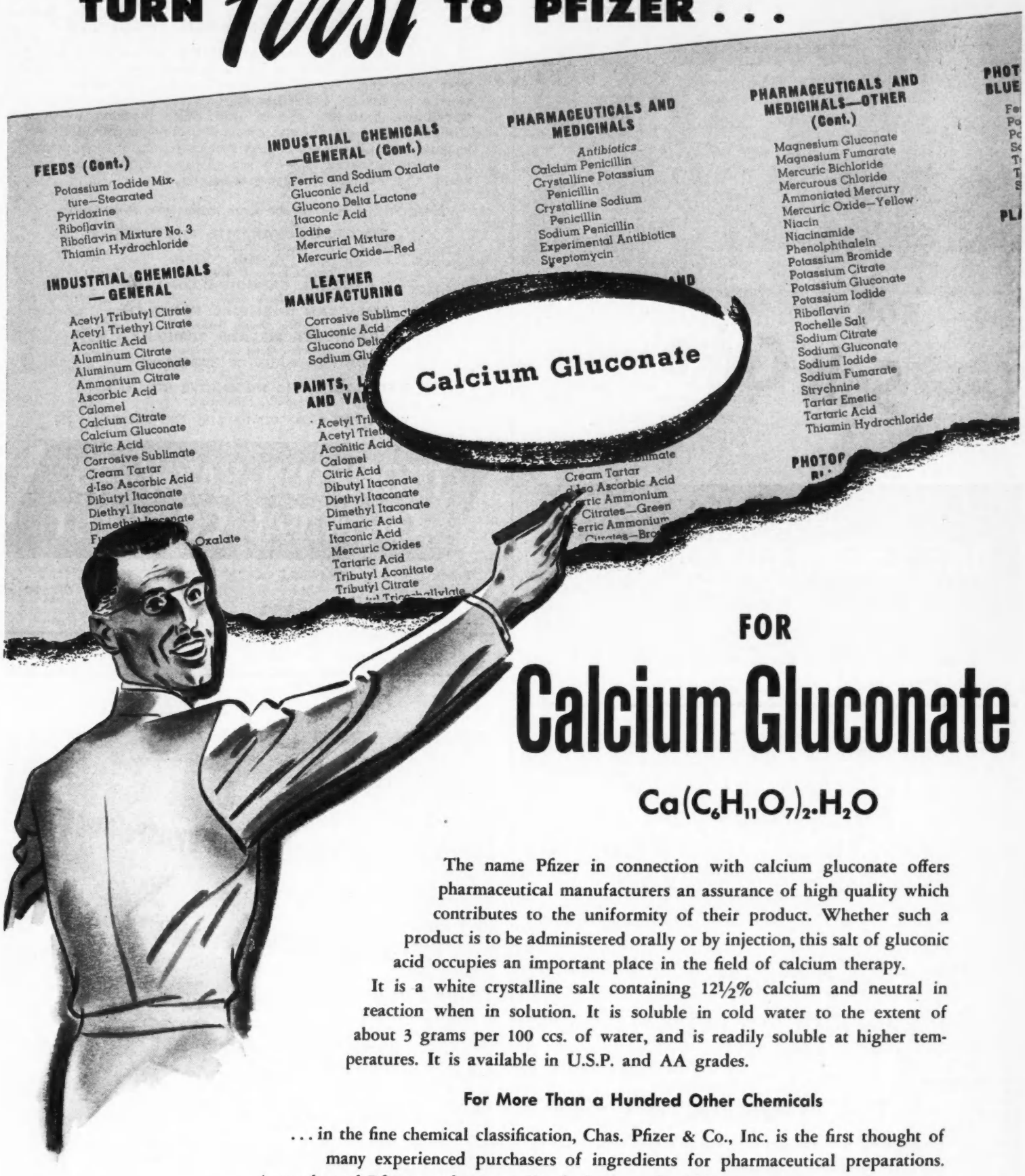

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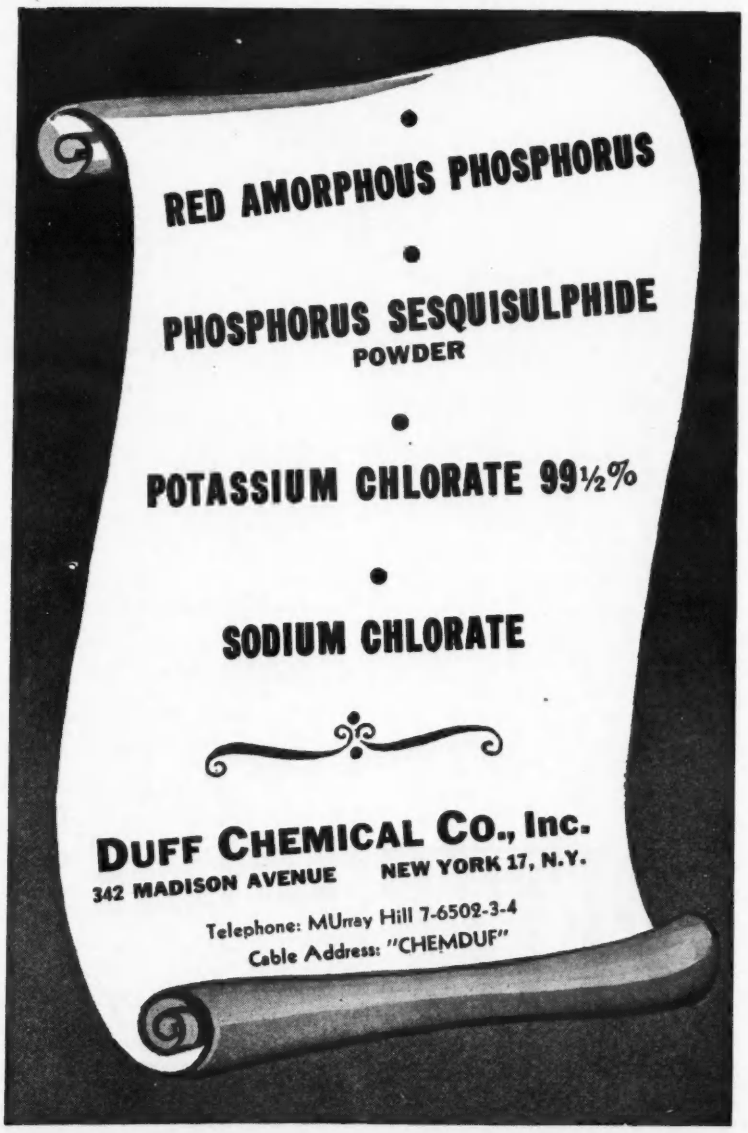

Heavy Chemicals

Supply conditions have revealed some easement in industrial chemicals, aside from calcium chloride, chlorine, caustic soda and soda ash and a few of the acids. Consuming demand has been of more normal dimensions with the tendency following conservative lines. In some producing quarters, it was stated that shipments of bicarbonate of soda have about leveled off contract schedules, a condition not expected a few months ago. Improvement is noted in the distribution of silicate of soda and tri sodium phosphate although the latter is not flush with consuming requirements at present. Production of technical epsom salt is gradually bringing that market into a normal state. Output of carbon tetrachloride has relieved the tense supply condition recently noted in that market and some major producers are on even beam with scheduled requirements. Perchlorate of potash stocks are freer and there is plenty of chlorate of potash at present to meet all requirements.

Demand for bleaching powder has relaxed moderately from the paper mills as a result of a better distribution of chlorine. Soda tungstate prices were not charged for June shipments although limited production has held the market in a very firm condition. Prices for red phosphorus for export have been reduced. No improvement in buying conditions could be noted in formic or oxalic acids and glacial acetic acid has remained tight for prompt shipment. Silicate of soda appeared to be about in balance with demand and the same was true of manganese chloride. Stocks of copper, nickel and zinc sulphate were equal to current requirements. Allocations of antimony oxide and sulphide have been covered but the latter has shown a tendency to tighten under limited production. Chlorate of soda was not as tight as noted a month ago and the supply situation has improved under stepped up production.

Paper production as a percentage of six-day capacity was 104.7 in the week ending May 31, according to the American Paper and Pulp Association. This compares with 105.1 in the previous week and 96.3 for the corresponding week a year ago.

Market Trends

Prices Advanced

None

Prices Reduced

Red phosphorus, for export, 15c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

General Chemicals

Last week.	Prev. week.	Last month.	Last year.
199.3	199.3	199.0	168.5

Acids

Last week.	Prev. week.	Last month.	Last year.
119.3	119.3	119.1	116.0

(For Current Prices see Page 9)

Ammonia Liquor—Production in April was off 3.9 percent, according to the Bureau of Mines. The total amounted to 4,750,367 pounds, compared with 4,942,627 pounds in March and 4,102,579 pounds in April, 1946. Sales were almost equal to output, the total registering 4,552,049 pounds in April, compared with 4,558,455 pounds in the preceding month and 4,022,495 pounds in April last year. Stocks on April 30 were placed at 1,574,885 pounds, against 1,670,541 pounds on March 31, and 1,081,367 pounds at the close of April, 1946.

Antimony Oxide—Production has been maintained at a level sufficient to meet allocations in full. Demand from the ceramic and paint industries continued steady and the undertone of the market was described as firm. Difficulty in securing licenses has kept down export trade and shipments have been confined to small lots.

Antimony Sulphide — Available stocks have shrunk and buying conditions have tightened. It was said that high costs have cutback production and in some supply quarters it was intimated that higher prices for sulphide may be necessary to increase output.

Arsenic—Supply conditions have remained definitely tight with the glass and insecticide industries short of requirements. The absence of spot offerings has created a nominal price condition, although contract figures have not been changed. A quotation of 9 to 9½c. per pound was heard for imported arsenic for shipment.

Bauxite—After setting a postwar record in the third quarter of 1946, domestic bauxite production declined 27 percent in the fourth quarter, according to the Bureau of Mines. The output, partly estimated, was 250,662 long tons (213,063 tons dried equivalent) in the fourth quarter, compared with 341,079 tons (289,917 tons dried equivalent) produced in the third quarter. Arkansas mined 92 percent of the fourth-quarter production, and Alabama, Georgia, and Virginia together furnished the remaining 8 percent. Imports of bauxite in the fourth quarter were 237,008 long tons, 9 percent less than in the previous quarter. Almost all of it came from Surinam. Imports comprised 53 percent of the new supply in the fourth quarter of 1946, compared with 20 percent in 1942-44 and 54 percent in 1925-41.

Bleaching Powder—Supply position has remained comparatively tight, although demand is not as active as noted a month ago. This is said to be the result of a relaxation of purchases by the paper mills where several shifted to bleach during the critical shortage of chlorine. The scarcity of steel has been a serious problem to producers who have been unable to pack this material in steel drums. Meanwhile the use of fiber drums and wooden barrels has been employed to facilitate distribution.

Calcium Chloride—Definitely in short supply with some of the major producers three months behind on contract shipments. Inquiry has shown a steady seasonal increase which has added pressure to an already tense supply situation.

Carbon Tetrachloride — Additional progress has been made in leveling off backlog orders and in some major producing quarters, shipments are flush with contract schedules. The container shortage is still a problem although the insistance of a $10 deposit on drums has brought about a more rapid return of empty containers.

Epsom Salt—Producers have made progress in catching up with scheduled requirements for the technical grade. Stocks are not entirely flush with demand at present, although the differential is not serious.

Glauber's Salt—No important improvement could be noted in the supply condition. Demand remains above current production and buying conditions were described by producers as tight.

Magnesium Chloride—Maintenance of production has kept this market in a satisfactory degree of balance. Sales of carlots are reported at $37 per ton works freight allowed East. The anhydrous grade is moving on the basis of 12¾c. per pound works for prompt shipments.

Manganese Acetate — Demand has been leveled off sufficiently to hold the market in balance. Buyers have not experienced difficulty in placing orders for prompt shipments.

Manganese Dioxide — No unusual activity reported, with demand confined mostly to immediate shipments representing the actual requirements of consumers. The market reflected a steady tone without indication of price change.

Nickel Carbonate—Platers have not experienced difficulty in securing this material for prompt shipment. The chloride has also improved its supply condition. Former prices have been named by major producers.

Nickel Sulphate—Continued in relatively free supply under a demand that cannot be described as urgent. Stocks have been built up to a level to permit prompt shipments without difficulty.

Potash, Carbonate — Supply conditions have shown no appreciable improvement since the turn of the

For Late Market Developments, See Page 4

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month. Demand has kept above the available supply and buying conditions have continued definitely tight.

Potash, Caustic—Output has not been sufficient to ease the short supply condition and the market is described as tight for both dry and liquid forms.

Potash, Chlorate—Stocks remained available for immediate shipment, and buyers are not finding the supply situation a problem at present. Relaxation in buying interest from the match factories has allowed producers to build up stocks.

Potash, Perchlorate—Buying conditions have shown improvement and immediate shipments were available last week. Demand from the fusees appears to have been leveled off, temporarily at least. Importations of 136 barrels was noted from Chile.

Soda Ash — No new developments have materialized to ease the supply situation in soda ash. It was stated that no important contract cancellations have taken place and there has been very little disposition to defer shipments. Producers have continued to allocate material to the consuming industries.

Soda, Bicarbonate—Shipments have shown improvement and some of the major producers have succeeded in matching contract schedules. It was stated, however, that this condition may be temporary.

Soda, Caustic — Continued to feel the impact of a demand exceeding production capacity. Stocks definitely short, with consumer wants being fed entirely from current output.

Soda, Chlorate—Shortage of stocks not as severe as noted a month ago. Stepped up production has brought contract shipments more in balance with the heavy miscellaneous consuming demand, but the supply has not been sufficient to entirely level off requirements.

Soda Phosphate, Tribasic — Supply position has eased somewhat, although production has not been sufficient to level off consuming demand. There is a shortage of stocks for nearby shipment but backlog orders are gradually decreasing.

Soda, Silicate — Essential domestic requirements are being covered in both liquid and dry forms of this material. Sustained production is said to have placed this market in a better state of balance than noted earlier in the year.

Soda Tungstate — Supply situation has remained definitely tight in this market but prices have not been changed for the month of June. Suppliers have met some resistance at the current figure of $1.45 per pound because contracts were written by some producers at lower prices early in the year covering shipments over the second quarter. The shortage of tungsten ore has greatly restricted production of soda tungstate and it is doubtful if new business would be considered at the present time. Old line consumers mostly in the pigment trade are getting limited quantities against their contract accounts and it is stated that these shipments have constituted the major part of the present movement.

Acids

Acetic — Maintenance of a broad consuming demand for glacial has exceeded the current supply and the market has not relaxed from its former tight buying condition. The shortage of containers continues to be a problem for the distribution of this acid.

Chromic — Production has not been able to level off demand for this acid and the shortage of available material has kept the supply position tight. Most of the current movement has

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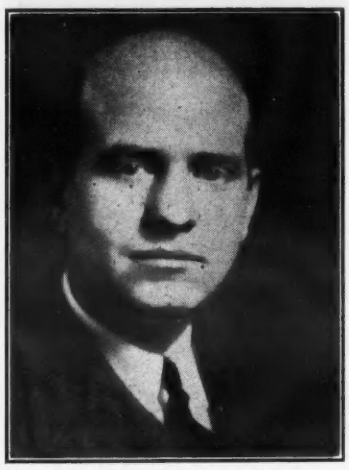

Dr. Charles A. Thomas, vice-president and technical director of the Monsanto Chemical Company, St. Louis, who was recently elected executive vice-president of the company.

been confined to regular contracts for domestic use.

Hydrofluosilicic—The breweries, ceramic and other consuming trades have been able to secure prompt shipments. Production has been sufficient to maintain a favorable supply condition.

Nitric — Demand and supply have kept this market about in balance. No indication of excessive stocks but current requirements have been covered on a reasonably prompt basis.

Oxalic — No appreciable improvement could be noted in buying conditions. Slow progress has been made in leveling of backlog orders and there continues a definite shortage of stocks. Meanwhile, contract accounts are getting all the acid it is possible to ship with the allocation method still being employed by producers in an effort to keep distribution along equitable lines.

Phosphoric—Stocks are not free although most of the essential requirements of regular consumers have been covered. Suppliers admit that considerable new business could be placed if stocks were available. The container shortage remains a problem with no definite prospects of nearby relief.

Sulphuric—Demand and production have continued heavy with not enough differential to throw the market out of balance. Difficulty in securing sufficient tankcars has interrupted shipments to some extent but stocks have been available if transportation facilities have not.

Non-Ferrous Metals

Aluminum—In January, production of primary aluminum, 50,045 short tons, held virtually at the high December, 1946, date, according to the Bureau of Mines. For comparative purposes, production of primary aluminum during 1941 was 309,067 tons, and the first full peacetime year, 1946, was 409,630 tons. Demand continued to be in excess of new supply and it is expected that the year-end primary metal stocks of 71,760 tons of Metals Reserve Co. will be exhausted in a few months.

Cobalt—Reversing an upward trend that had prevailed without interruption for the four preceding quarters, use of cobalt by industrial consumers was 17 percent less in the first quarter of 1947 than in the previous quarter, according to the Bureau of Mines. Production and imports of cobalt metal were 12 and 24 percent, respectively, smaller than in the preceding quarter but sales were only 12 percent less. Output of hydrate and driers was also smaller but production of oxide and salts was larger. Imports of oxide, however, were only half those of the preceding quarter. Domestic output and imports of cobalt ore declined in the first quarter and were much less than consumption, which decreased slightly; as a consequence, stocks held by refiners and processors dropped 41 percent and were sufficient for only three months at the first quarter consumption rate. Imports of cobalt into the United States were about 34 percent smaller in the first quarter of 1947 than in the preceding quarter. Imports of oxide and metal were 54 and 24 percent, respectively, less than in the preceding quarter. During the first quarter, 128,837 pounds of metal were received from Japan.

Copper—Prices have remained unsettled with major producers naming 21½c. per pound for electrolytic and custom smelters quoting 24c. In between is some imported copper at 23c. per pound. It is stated that the brass trade is fairly well sold on excess demand at present and this industry has contributed the chief support to the copper market. The trade appears to look for a crystalization of prices at a 23c. level. It is also stated that copper scrap receipts are at the highest level in years and prices offered for scrap by refiners are much below a normal level. This is thought by some to indicate weakness in the fundamental position of the market. The opinion prevailed that if the metal is established at 23c. per pound, it will likely be the peak price for the late advance.

Tin—In describing the background of tin shipments from Siam, it was stated that eighteen small charcoal fired blast furnaces of Chinese design had been built there during the war. Prior to the war, bulk of the concentrates were sent to the Straits smelters at Singapore and Penang, where it was made into the well-known brands of Straits tin. During the war years of 1942-1945 Siam produced a total of 26,032 tons of concentrates containing 18,152 tons of pig tin. About 2,700 tons were shipped to Japan in the form of concentrates. The inefficient smelters produced tin of varying quality and it is feared that most of the pig tin destined for this country will be of poor quality, despite the high quality of most of the concentrates which run 65-74 percent pure. Some average only 55 percent, however, the low being about 45 percent and the high 70 percent.

Zinc—Output of zinc-base products made entirely or partly from purchased zinc scrap and residues in March was 13,089 tons, according to the Bureau of Mines.

London advices stated that reports were current that a sale of zinc had been made for shipment to Europe at 10c. per pound at Gulf of Mexico ports.

National Can Corporation has opened a new sales office in the Champaign building, 37 South Wabash avenue, Chicago, Ill.

Drew Opens Office In Greenville, S.C.

E. F. Drew & Co., chemical manufacturer, New York, has opened a sales office for its textile specialties and allied products at 805 Woodside building, Greenville, S. C., to serve this territory with its synthetic esters, wetting agents, synthetic detergents, softners, sulfonated oils, soaps and other specialties.

W. H. Kirkpatrick, former divisional sales manager for Westvaco Chlorine Products, has been appointed manager of the Drew company's new office.

Interchemical Markets New Wood Preservative

Interchemical Corporation, trade sales division, New York, is marketing a new preservative for wood under the trade name 'Setfast,' which it claims will effectively protect from rot, trellises, fences, coldframes, porches, outdoor furniture and any other wood which comes in contact with the soil.

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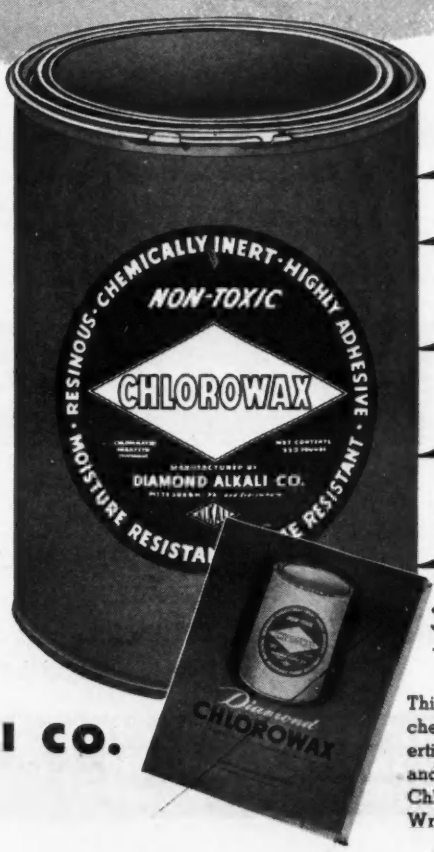

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Fertilizer Bill

—Continued from page 5

promised to prepare a bill carrying out these principles.

Aiken's View Refuted

During his appearance on the stand, the secretary also sought to put to rest the complaint that has been voiced by Senator George Aiken of Vermont that the government-owned nitrogen plants had been offered to industry and had found no takers. Mr. Aiken inferred that the industry was not interested in expanding output.

Mr. Anderson insisted, however, that there was more to the story than just the offering of the plants. In the first place, he pointed out, there is a terrific shortage of tankcars. Secondly, the government plants could produce only solutions and these solutions would have to be shipped many miles for graining operations. Of course, no private company wanted to enter into any such three-cornered arrangement as that, he said.

In opening industry's arguments against the bill, Mr. Douglass testified that he thoroughly realizes the importance of and strongly supports fundamental research and education, but not commercial production of fertilizer by government agencies camouflaged as research.

Facilities Expanding

He said that notwithstanding wartime and postwar difficulties in obtaining essential materials for plant expansions there has been and is now underway a tremendous expansion of production facilities. He added:—

"In the few years immediately preceding the war," Mr. Douglas declared, "several companies nearly wore their hearts out attempting to sell triple superphosphate in the very Midwestern States now clamoring for it. They were not able to market a volume that would keep their factories running except part time."

He said that given the opportunity, industry will continue to meet the needs of farmers as they have been met in the past in all normal periods.

Mr. Heinrichs testified that there is no need for the proposed government mining program provided for in the bill because "private industry is well able and willing to expand its operations" to meet present and future phosphate rock needs "without seeking government funds produced through taxation."

Mr. Metzger said that while the industry recognizes the need of experimental and educational work, it opposes S.1251 because it puts the government squarely in the fertilizer business; it may take away sources of either rock phosphate or potash if the government elected to buy or lease the properties of the industry's basic suppliers; it is conceivable that the government acquire sufficient land containing fertilizer materials to the extent of discouraging the entrance of private industry into the raw materials field; and it is also conceivable that the $9,000,000 expenditure for the Mobile (Ala.) plant might be blown up to astronomical figures at the expense of the taxpayer.

Mr. TenEyck testified that private industry is at present selling triple superphosphate at less per unit than it costs TVA to produce. He said that industry has more than met the demands for concentrated fertilizers in all normal periods and confidently expects to meet them in the future as quickly as necessary building materials, equipment and transportation become available.

Mr. Lockwood opened NFA's attack on the legislation by stressing these four points:—(1) That private industry has long been in the forefront in developing and producing concentrated phosphate, as well as of nitrogen and potash carriers; (2) the industry today is providing to farmers twice as much fertilizer as was consumed during the war and increased its production with little government assistance; (3) the industry currently has a program for further increasing its capacity and output to meet farmers' demands for all kinds of fertilizer, including concentrated phosphates; and (4) the industry has long favored and assisted in programs of sound research and demonstration.

Subsidization Unnecessary

Dr. MacLeod testified that the bill was unnecessary because sound fertilizer usage needs no subsidization and the main purposes of the measure are now being served by industry, state and Federal agricultural agencies. He said that fertilizer shortages are not due to industry but to increased usage from accelerated war demands and abnormal war prices for agricultural commodities; shortages of labor, containers, and transportation facilities; shortages in building materials to expand plant capacity; and diversion, by government agencies, of fertilizers into export channels.

If fertilizer distribution by the government is logical, he added, so also, in due time, is distribution of all other commodities—seeds, insecticides, farm machinery, fencing and all the rest. "This is the Russian road which is not popular here as yet," he said.

Mr. Parker testified in the role of a small independent mixer and refuted statements made at earlier hearings by Senator Lister Hill of Alabama that the farmers postponed soil conservation practices during the war. He said that the farmers were carrying out such practices to a greater degree than they ever had before. He said that the government accuses private industry of not having enough production of nitrates, but the responsibility for this, he declared, lies squarely with the government itself.

Mining Difficulties

Mr. Ware traced the expansion of potash and phosphate mining and the difficulties being encountered in obtaining necessary machinery. He said that both the phosphate and potash industries have given a most creditable performance during recent years of unusually high demands, and expansion to meet this increased demand has been accomplished as rapidly and favorably as expansion in any of the industries during this period. It is true that there have been shortages, he pointed out, but not more so than in many other things of which there have been insufficient supplies during these active years.

Mr. Bellinger said that the industry cannot see anything in the bill which is an improvement over the presently existing agencies for carrying on farm practice improvement work. He said that Tennessee Corporation is a large producer of triple superphosphate, having been engaged in the manufacture of this material for twenty years. During this period, he said, the company experienced a period of two years in which the plant was forced to shut down completely due to inability to sell triple superphosphate. During the balance of the twenty-year period sales have followed more or less closely the pattern of the general agricultural prosperity of the country.

TVA Supports Bill

Officials of the Tennessee Valley Authority were the last witnesses heard by the committee before a temporary halt was called to the hearings. They offered their wholehearted endorsement of the measure while emphasizing the importance of having such a plant as that proposed to be constructed at Mobile in the event of another war. The plant is to be of the blast furnace type so that elemental phosphorus can be produced for munitions during an emergency while the fertilizer industry generally uses the wet process in the production of phosphatic fertilizer.

New du Pont Manager

C. B. Shepherd was recently appointed manager of the chlorine products division of E. I. du Pont de Nemours & Co., Wilmington, following retirement of Thomas Coyle.

Perchloric Acid Safety Data Sheet Available

The Manufacturing Chemists' Association has published a preliminary chemical safety data sheet (SD-11) on perchloric acid solution, the eleventh in the series of MCA chemical product safety manuals. Designed for supervisory staffs, management, and the chemist, the manuals concisely present essential information for the safe handling and use of chemical products.

The data sheet on perchloric acid solution gives the important physical and chemical properties of this product; usual shipping containers and methods for their unloading and emptying; container storing and handling; requirements for caution labels; and personal protective equipment.

Chemical safety data sheet SD-11, perchloric acid solution, may be obtained at 20 cents a copy from the Manufacturing Chemists' Association, 608 Woodward building, Washington 5, D. C. Send remittance with order.

Dr. Boyd Opens Consulting Office

Dr. James H. Boyd, until recently eastern representative in research and development for Phillips Petroleum Company, Bartlesville, Okla., has opened offices at 19 Rector street, New York, as a chemical consultant on technical and economic problems. The telephone number is Bowling Green 9-3456.

Dr. J. H. Boyd

Dr. Boyd will specialize in the economic appraisal of chemical markets, patents and projects in petroleum hydrocarbons, chemicals and emulsion polymerization.

He joined Phillips in 1939 and was assigned to Hycar Chemical Company on its formation in 1940. There he supervised raw material procurement for synthetic rubber and conducted process cost and market study.

Conley Scores Twice At SOCMA Outing

Neil Conley, of the Calco Chemical Division of American Cyanamid Company, Bound Brook, N. J., scored a double win at the recent outing of the Synthetic Organic Chemical Manufacturers Association, when his low gross of 77 led the field in the golf tournament, and when he held the lucky number in the drawing for the door prize. In addition to the first prize there were nine "kicker" prizes in the golf tourney. The prizes were Abercrombie & Fitch gift certificates.

Nopco 15-Year Club Grows

Nopco Chemical Company, Harrison, N. J., recently initiated eighteen new members into its "15-Year Club," which is composed of employees who have been with the organization fifteen years or longer. They were presented with gold service pins, and will receive a third week of annual vacation in recognition of their long service.

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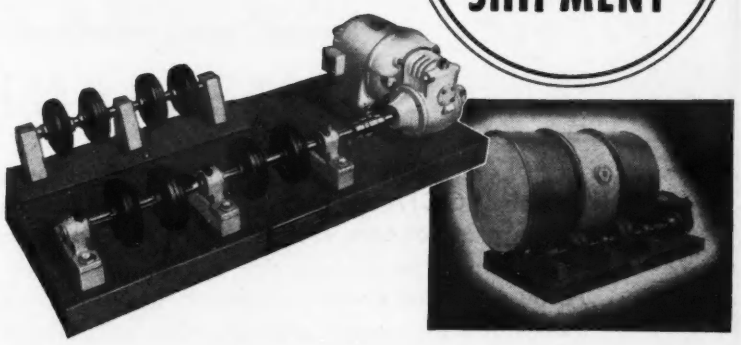

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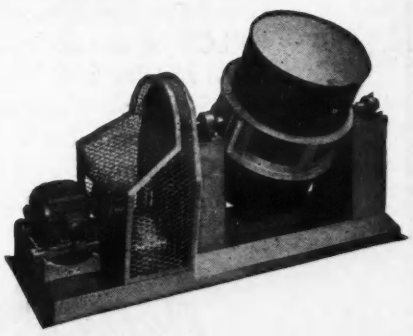

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M.C.A. Growth

—Continued from page 5

competition, the end product of which he described as greater output at lower cost. He presented the following examples of price declines which have taken place since the products were brought into commercial production:

Acrylonitrile, from 75 cents to 29 cents a pound; DDT, from $1.60 to 42 cents a pound, ethylene glycol, from 60 cents to 9 cents a pound; phthalic anhydride, from 35 cents to 14 cents a pound; anhydrous ammonia, from $500 to $59 a ton; chlorine, from $112 to $40 a ton, and penicillin, from $20 to 36 cents per 100,000 units.

"The chemical industry has been able to upset the classic law of supply and demand by adapting other raw materials to fill existing needs," he stated. "As a result, the greater the demand for synthetic chemicals, the lower the price."

Mr. Munson said that the development of World War II having perhaps the greatest effect on the chemical industry was the vast amount of raw materials required by the synthetic rubber program. He said that this focused attention as never before on the possibilities of petroleum as a chemical raw material.

In conculsion, Mr. Munson said the basic problems of the industry are those of better use of resources and manpower; a better trained and more productive labor force; more efficient plants and equipment; expanding research, and good labor relations.

The annual report of the executive committee, prepared by its chairman, George W. Merck, of Merck & Co., Rahway, N. J., was presented in summary.

Container Research

It revealed that the association had been doing a substantial amount of container research relating to such products as high-strength hydrogen peroxide, sodium hypochlorite, liquid bromine, benzyl bromine, nitric, hydriodic and perchloric acid, arsenical insecticides, and phosphorous compounds.

The paper said that a new definition for corrosive liquids has been incorporated in the ICC regulations and that a proposal to amend the definition of Class B poisons is now being considered. It reported that committees are now studying methods for improving the accuracy of the ICC method of flash point determination for inflammable liquids.

In regard to legislation, the report stated that a bill (S.1141) amending the Transportation of Explosives act has been introduced in the present Congress and it is expected that the association will again request an opportunity to present testimony if hearings are held.

It said the measure, if enacted, would drastically alter present practices in transportation of dangerous articles; would broaden considerably the jurisdiction of the Interstate Commerce Commission over all regulatory commodities; remove the bureau of explosives as the recognized advisory agency to the commission, and result in drastic changes exceeding the controls now exercised under the current law and regulations.

Model Label Bill

The paper also reported that the labels and precautionary information committee is now engaged in the formulation of a model state label bill with the objective of minimizing the possibilities of conflicting state requirements.

A conception of the scope of the problem of stream pollution abatement was gleaned from a survey made by the committee on this matter, according to the report. It revealed that 108 plants have spent over $20,000,000 for equipment and research in the treatment of water supply and trade wastes in addition to an annual operating cost in excess of $3,000,000.

The report stated that the committee's long-range program gives emphasis to stimulating industry recognition to its pollution problems and the adoption of measures for their solution, and includes plans for exchange of technical information as well as cooperation with government agencies.

Howard Huston, of American Cyanamid Company, acted as master of ceremonies at the dinner and introduced the guest speakers.

Guest speakers at the dinner were H. W. Fisher, president of Enjay, Inc., and George L. Parkhurst, president of the Oronite Chemical Company.

Taking as his subject "Petroleum as a Source of Chemical Raw Materials," Mr. Fisher said that while the oil industry regards the chemical industry as consumers of the raw materials that it can produce, petroleum's first obligation will remain that of meeting liquid fuel requirements.

Petroleum Research

At present, he said, a full third of the Standard Oil Company's research effort is being devoted to the extraction of liquid fuel from natural gas and coal. Viewed in terms of world petroleum production, present chemical demands represent but a fraction of 1 percent.

Pointing to the high costs of production, he said that within the past twenty-five years, refinery techniques have changed at least four times and each change necessitated rebuilding the refineries from the ground up.

Mr. Fisher said that the petroleum industry is not in a position to store large quantities of chemical materials and stressed the need for a level demand to obtain economical production. Improvement in the quality of gasoline frequently changed by-product yields, causing further difficulty, he said.

There will be some dislocations, Mr. Fisher said, while the chemical industry adjusts to new conditions, but continued cooperation between the two industries will result in eventual stability.

Mr. Parkhurst discussed "Aromatic Chemicals from Petroleum," and confined his remarks largely to the aliphatics and particularly the unsaturated aliphatics.

Toluene and Benzene

He traced the history of toluene and benzene synthesis through both world wars, and remarked that present availability of war plants afforded a most effective ceiling against increased toluene prices.

However, he said, the ability of the petroleum industry to produce benzene economically remains to be proven, though two companies are planning production at this time. With slackening production of benzene in the steel industry, it is possible that toluene prices will drop as benzene prices rise, even to the crossing of their respective curves.

This will raise the question, he said, of whether chemicals now based on benzene can be successfully converted to a toluene base.

Mr. Parkhurst voiced his opinion that synthetic organic detergents from petroleum could hold their edge over many forms of soap, even in the face of dropping prices for fats and oils. This depends, he added, largely on consumer acceptance as a soap replacement.

These detergents, he said, have three present deficiencies which must be overcome: their inability to wash heavily soiled cotton satisfactorily; variations in efficiency due to hard or soft water conditions, and production of a satisfactory bar soap, other than the salt water soap produced for war purposes.

Other speakers were Dr. Leo Wolman, professor of economics at Columbia University, who discussed "What is Our Labor Policy?", and H. A. Campbell, chief inspector for the Bureau of Explosives, whose topic was "Texas City Disaster."

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Int'l Minerals Leases Wheat Products Plant

The International Minerals & Chemical Corporation has completed negotiation for lease of the manufacturing facilities of the Holland, Mich., plant of the Doughnut Corporation of America. International's amino products division will use the plant for the manufacture of wheat gluten, dextrose, wheat syrup and wheat molasses.

N.Y. Board of Trade To Hear Whiteside

The New York Board of Trade will hear Arthur D. Whiteside, president of Dun and Bradstreet, speak on the subject, "What Is Ahead of Business," at its meeting on June 11 at the Waldorf-Astoria hotel.

Monsanto Advances Gardner at Merrimac

Monsanto Chemical Company has named Arthur L. Gardner assistant to the general manager of its Merrimac Division. He was formerly production manager of the division.

Mr. Gardner has been associated with the Merrimac organization since 1919, and has functioned as production manager since 1942. He was formerly with the Roessler & Hasslacker Chemical Company, Perth Amboy, N. J., and the New England Manufacturing Company, North Woburn, Mass.

Michigan Chemical Adds To List of Products

Michigan Chemical Corporation, St. Louis, Mich., has added 2-chlorothiophene to its list of organic halogen chemicals. It is now being made in pilot plant quantities and will be expanded to full-scale commercial manufacture as demand develops.

Quinine Controls

—Continued from page 4

roximately 20 percent to cover export taxes imposed by the Indies government. This price, he added, would permit the distribution of these products to the consumer in this country at approximately the going price, which was originally established by the Office of Price Administration.

Mr. Grove told the committee that his company is continually receiving inquiries as to when buyers will be able to obtain quinine in its products. He said that the supply and demand status of quinine at this time is that there is available about 4,100,000 ounces, including offerings not taken up by the government, while total demand for all uses is approximately 3,000,000 ounces.

Previously, H. B. McCoy, director of the office of materials distribution of the Department of Commerce, had testified as to the need for continuing both the domestic control program and the public purchase program.

"Without restrictions on domestic distribution," he said, "probabilities are that the bulk of quinine and quinidine will find its way into such products as chill tonics, hair tonics and cough remedies."

He declared that if the public purchase program is dropped, the United States will probably be deprived of about 1,000,000 ounces of quinidine, equal to one-half the estimated demand, and a much more substantial amount of quinine.

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Textile and Leather Chemicals

Higher cost for corn resulted in fractional price advances for corn derivatives by wet processors last week. Production of corn starch and dextrin continued at capacity, which was moved steadily against former contracts. Corn market was strengthened by the adverse weather conditions over the corn belt, light offerings from the country and heavy withdrawals for export. Interest in resale cornstarch for export was less active owing to keener competition from producers. Potato starch continued in limited supply and was in good demand for domestic and export requirements. Production has ceased for this season and small stocks were firmly held. Trading in tapioca flour was slow. Offers of new crop flour for shpiment from Brazil were quite liberal, with buyers bids still below asking prices.

Consuming inquiry for tanning material replacement was dull and featureless last week. Tanners continued to restrict interest to quebracho and wattle extracts and tara powder. Imports of good sized quantities of most materials during the past fortnight have replenished tanners inventories for prompt and nearby requirements.

Shoe production in April, 1947, totaled slightly more than 40,000,000 pairs, a decline of about 16 percent from a year ago, according to preliminary estimates of the Department of Commerce. Uncertainty about prices appears to be the principal factor affecting the volume of production. Retailers hesitate to place orders for substantial supplies until they are assured of price stabilization. They feel that consumer resistance may grow sufficiently to force price reductions and believe it desirable at present to operate with short inventories. Retail shoe sales were disappointing during March and most of April, although larger than in February, according to the report. Value figures indicate some increase in business from a year ago, but this was mainly due to higher prices which prevailed this year; actual pairage sales were somewhat lower than a year ago.

Department of Agriculture announced, June 2 an interim cotton loan rate of 24.75 cents per pound for 1947-crop Middling 7/8 inch cotton, gross weight at average location. The interim rate for 1946-crop cotton was 20.25 cents per pound. This year's increase is occasioned by an increase in parity prices.

Market Trends

Prices Advanced

Corn dextrin, 25c. per 100 lbs.
starch, 25c. per 100 lbs.
sugar, tanners, 25c. per 100 lbs.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
314.4	312.2	311.8	288.4

(For Current Prices see Page 9)

Chemicals

Acetic Anhydride — Moderate demand was reported against contracts by the textile trade. Prices were steady at the recent advance.

Bichromates — While consumers readily absorbed the production against former contracts, interest in resale lots was appreciably reduced and prices were easier.

Prussiates—Conditions in this market remained steady, with demand moderate and mainly against previous orders. Quotations were unchanged.

Soda, Acetate—Demand continued active for this material and was greater than the supply. Prices were well maintained.

Soda, Hydrosulphite—Business was quiet. Withdrawals were in good request on former orders. Prices were unchanged and fairly steady.

Sulphonated—Oils—Consumers limited demand to small lots for actual requirements. Market was steady at recent price reductions, which were more or less nominal.

Dyestuffs

Annatto Seed—Trading was moderate and restricted to immediate needs in the local market. Prices were without change.

Cochineal — Supplies on the spot were scanty and firmly held. Trading was restricted by the scarcity of material at prevailing high prices. Quotations were unchanged and nominal.

Madder — Interest in this product continued for small lots. Market was dull.

Sizing Materials

Albumen, Blood — Aside from a moderate demand for immediate requirements, the market was dull and featureless last week. Quotations were unchanged.

Albumen, Egg — Buying interest showed slight improvement last week. Consumers were more optimistic as to the business conditions, and trading was more active than during the past few weeks. Most sales were reported for less carlots at former quotations. Granular was unchanged at $1.95 to $2 per pound, as to quantity. Technical was in good request and prices were firm at $1.15 to $1.25 per pound, depending upon quality and quantity.

Corn Sugar — Market was firmer with higher cost of corn. Prices were advanced 25c. per 100 pounds. Tanners chipped was quoted at $6.04 per 100 pounds, bags, carlots, and $6.08 in barrels, carlots.

Dextrin, Corn—Market was stronger and processors advanced prices 25c. per 100 pounds for all grades. Demand was active and the capacity production was moving steadily against former orders. British gum was quoted at $7.25 per 100 pounds, bags, carlots; canary $6.99, dark $7.09, and white $6.84, same basis.

Egg, Yolk — Moderate volume of trading was reported last week. Sales were noted at $1.18 to $1.23 per pound, for less carlots, for immediate requirements. Consumers also showed more interest in prompt delivery.

Sago Flour—Market was quiet. Offerings for shipment from the Far East attracted little buying interest. Quotations were nominal at 7c. per pound, c.i.f. New York.

Starch, Corn—Active demand continued to take the capacity output against former contracts. Market was firmer and some processors raised quotations 25c. per 100 pounds for all grades. Interest in resale material for export has slackened and prices for shipment were easier. Pearl was quoted at $5.74 per 100 pounds paper bags, carlots, and powdered at $5.83, same basis.

Starch, Potato—Supplies on the spot were scarce and in active demand. Production has ceased for the season and was sold ahead months ago. Prices were entirely nominal at about 8¾c. per pound, carlots, New York basis.

Starch, Wheat—Demand for export was less active last week. Prices for export were quoted at 8c. per pound, carlots, while quotations for domestic use were unchanged at 5.6c. to 6.3c. per pound, as to quantity.

Tapioca Flour—There was no improvement in the quiet demand for shipment from Brazil or for supplies on the spot. New crop flour of good quality was quoted nominally at 7c. to 7¼c. per pound, f.o.b. southern and 5¾c. northern Brazil. In the local market, supplies were quoted at 5¾c. to 10c. per pound, according to quality and seller. Imports were reported at 2,200 bags at New York from Rio de Janeiro last week.

Tanning Materials

Chestnut Extract—Moderate quantities were reported moving on previous orders, with new business light and mainly for immediate needs. Quotations were without change.

Divi-Divi—Limited offers for shipment combined with a good inquiry kept this market steady. Trading in 42 percent tanning was noted at $62 per ton, ex-dock for nearby shipment and 38 percent was well held at $58 to $60 per ton, same basis.

Gambier—This market was quiet.

For Late Market Developments, See Page 4

Plantations for shipment were quoted at 21c. per pound, ex-dock.

Mangrove Bark—Inquiry was slow for replacements. Market was unchanged and quoted nominally. Arrivals were noted at 1,500 bags at New York last week and were consigned on previous orders.

Myrobalans—Offerings for shipment were more liberal, but with demand slow, the market was dull and featureless. Prices were unchanged and nominal.

Quebracho Extract—Because of conflict between the two existing decrees (7,885 and 25,864) applying to the exportation of tanstuffs from Argentina, complaint was made to the Ministry of Industry and Commerce that supplies of quebracho extract were not available. The matter was referred to President Peron and the following superseding decree has been issued:—

Article 1.—The export permits for extract of quebracho and urunday shall be issued only in favor of the Instituto Argentino de Promocion del Intercambio.

Article 2.—The Instituto Argentino de Promocion del Intercambio will distribute among the various factories of the country its purchases of extract of quebracho and urunday, to apply to its sales abroad, in accordance with the share coefficients established by decree No. 25,864/46 or the ones which the executive power may determine in the future.

Article 3.—The periodical export quotas established in the provisions in force will be set by the Direccion General de Comercio Direccion de Exportacion & Importacion, of the Ministry of Industry and Commerce, at the request of the Instituto Argentino de Promocion del Intercambio. The Institute will communicate to the manufacturers the quotas corresponding to them as their share in the production to be applied to sales abroad arranged by the said agency, in accordance with the provisions in the foregoing article.

Arrivals totaled 105,410 bags at Atlantic ports last week for delivery against prior contracts. Offers for shipment were scanty and the market remained firm. Solid ordinary was quoted at 9¼c. to 9⅜c. per pound, ex-dock, plus duty.

Sumac—Trading was reported slow. Shipments were offered at $105 per ton, ex-dock, with intimations that this figure could be shaded on a firm bid. Imports of ground sumac were reported at 150 bags last week for delivery on prior contracts.

Tara Powder—This market continued firm. Supplies were light and firmly held at primary points. Trading was reported in powder on the basis of $225 per ton, ex-dock, U. S. ports.

Valonia—Some 18,248 bags of valonia was received at New York last week, for delivery on previous contracts. This market was steady, though tanners showed little interest in replacements. Shipments were held at former quotations.

Wattle Extract—Offers for shipment of extract continued light. Inquiry for replacements was active, but trading was restricted owing to scarcity of supplies. Bark was available at current quotations, but business was reported quiet. Arrivals of bark totaled 3,900 bales at New York last week and were consigned on previous orders.

Alcohol Tax Repeal

—Continued from page 3

and substitute instead a permit system that will be paid for by industry in the form of an administrative fee at the rate of $1 per gallon of alcohol used.

The proposal is reported to have the support of all the drug associations in the manufacturing, wholesaling and retailing fields, the flavoring extract manufacturers and also wholesale grocers organizations.

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Coaltar Chemicals

Steel operations last week equalled the peak post-war rate established during the week of March 24, 1947, and marked the twenty-second successive week of operations above the ninety percent level.

The overall supply and demand picture for coaltar chemicals during last week reflected very little change over past weeks, with severe shortages still existing in cresylic acid, naphthalene, phenol, benzol and phthalic anhydride. In some quarters it was said that production is being curtailed in some directions because steel mills are burning tar as fuel instead of passing it on to process for derivatives.

Steel operations for the week beginning June 2 were scheduled at 97 percent of ingot capacity, compared with 96.1 percent in the previous week, according to the American Iron and Steel Institute. A month ago the indicated rate was 90.6 percent and the rate for the corresponding week in 1946 was 55.2 percent. The present schedule is equivalent to the production of 1,697,400 tons of ingots and castings, compared with 1,669,400 tons for the preceding week and 972,000 tons for the corresponding week last year.

Production and supply figures given below unless otherwise designated are from the Bureau of Mines and relate to coke-oven by-products.

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
133.8	133.8	133.8	127.3

(For Current Prices see Page 9)

Basic Products

Benzol—Production of this material continued to lag behind the high demand, with supplies reported to be insufficient to meet all requirements. Considerable activity was reported in the market, and prices remained firm at former levels. April production of the motor grade was registered at 1,478,552 gallons, compared with 1,675,938 gallons produced in the previous month and 2,256,879 gallons in April, 1946. Output of nitration was 3,847,847 gallons in April, against 3,950,014 gallons in March, and 2,980,705 gallons in April of last year. Production of the industrial pure during April totaled 8,337,526 gallons, compared with 8,520,384 gallons in March and 5,522,845 gallons in April, 1946. Output of all other grades amounted to 217,833 gallons in April, against 221,843 gallons in March and 235,482 gallons in April of last year. Stocks of the motor grade at the close of April were 1,026,965 gallons, compared with 1,571,389 gallons held on March 31. The amount of nitration held on April 30 totaled 1,466,069 gallons, against 1,534,979 gallons at the end of the preceding month. Stocks of the industrial pure amounted to 3,883,897 gallons at the end of April, compared with 3,499,404 gallons at the end of March. The amount of all other grades held on April 30 was 141,038 gallons, against 134,915 gallons held at the end of March.

Coaltar—Stocks continued to be tight, with almost the entire production being absorbed through regular contract channels. Demand continued to be high and prices remained firm at former levels. Production of crude coaltar during April totaled 59,991,521 gallons, a drop of 5.4 percent below the March output of 63,395,816 gallons, but an increase over the production of 44,262,548 gallons in April of last year. Stocks of crude coaltar at the end of April totaled 30,756,618 gallons, an increase of 8.1 percent over the 28,450,462 gallons held at the end of the preceding month, and an increase over the 29,821,730 gallons held at the close of April, 1946.

Creosote Oil—Heavy demand continued to keep supplies in a tight position, with the bulk of the output going to regular contract customers for wood preservation. Production during April totaled 3,604,121 gallons, an increase of 5.6 percent over the 3,411,455 gallons produced during March, and a substantial increase over the production of 2,386,273 gallons registered for April, 1946. Stocks at the close of April amounted to 1,143,839 gallons, a decrease of 7.9 percent below the 1,242,402 gallons held on March 31.

Naphthalene—Continued to be in extremely tight supply with demand for all grades exceeding production. No changes in quotations were reported and the firm tone of the price structure was maintained. April output of the crude solidifying at less than 70 deg. C. registered an increase of 123.7 percent over the previous month, with the April production totaling 2,142,883 pounds against 957,893 pounds produced in March. Output during April of 1946 was 1,025,896 pounds. Production of the 70 deg. C. and less than 79 deg. C. during April was 6,956,836 pounds, compared with 6,358,513 pounds in March and 4,364,016 produced during April, 1946. Stocks of the crude solidifying at less than 70 deg. C. at the close of April were 585,600 pounds, compared with 561,155 pounds held at the end of March. Stocks of the 70 deg. C. and less than 79 deg. C. on April 30 totaled 1,793,911 pounds, against 1,644,616 pounds held on March 31.

Pyridin—No changes reported in the overall supply picture for this material, with some of the so-called denaturing grades in fairly free supply and the pharmaceutical grades very short. Quotations remained firm at the former levels. Production of the crude bases during April totaled 48,850 gallons compared with 47,082 gallons produced during March and 22,337 gallons in April of last year. Output of the refined 2° in April registered 9,603 gallons, compared with 7,218 gallons in March and 8,234 gallons in April, 1946. Stocks of the crude bases at the end of April amounted to 94,548 gallons, compared with 87,047 gallons held on March 31. Stocks of the refined 2° on April 30 totaled 2,021 gallons, compared with 1,863 gallons held at the end of March.

Solvent Naphtha — Good balance was said to be maintained between supply and demand, with representative quantities of the refined light solvent reported to be available for current delivery. Production of the refined light solvent during April registered an increase of 26.5 percent over the previous month, with the total for April being 43,857 gallons, against 34,662 gallons produced during March and 24,643 gallons in April, 1946. Output of the crude heavy solvent in April totaled 333,762 gallons, a decrease of 14.3 percent below the 389,624 gallons produced in March, but an increase over the 242,848 gallons produced in April of last year. Stocks of refined light solvent at the end of April amounted to 38,302 gallons, against 43,238 gallons held on March 31. Stocks of crude heavy solvents were 287,621 gallons on April 30, compared with 323,052 gallons held at the end of March .

Toluol—Reported to be in good balance, with demand said to be high enough to move production on a current basis. Prices remained at former levels. Output of nitration during April totaled 1,889,028 gallons, compared with 1,694,338 gallons produced during March and 1,138,004 gallons in April, 1946. Production of the industrial pure during April was registered at 445,846 gallons, against 606,174 gallons in the preceding month and 203,-

Coke By-Products

Estimates of by-product coke-oven operations in the week ended May 31 indicate the following output of by-products from that source:—

Ammonia liquid NH_3	lbs.	1,160,064
Ammonia sulphate	lbs.	30,039,552
Benzol	gals.	3,785,472
Coaltar	gals.	14,042,880
Creosote oil	gals.	781,517
Naphthalene, crude	lbs.	1,856,102
Phenol	lbs.	219,802
Toluol	gals.	757,094
Xylol	gals.	170,956

For Late Market Developments, See Page 4

OPD—6-9-1947 51

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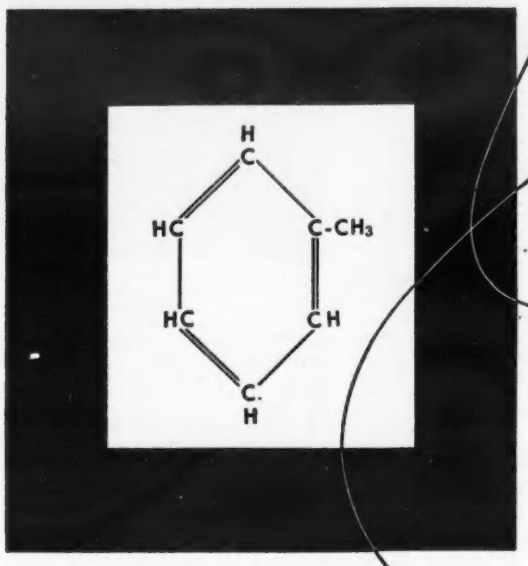

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438 gallons in the corresponding month last year. Production of all other grades in April was 88,558 gallons, compared with 108,680 gallons in March and 123,830 gallons in April of last year. Stocks of nitration on April 30 were 1,461,531 gallons, compared with 1,511,037 gallons held on March 31. Amount of the industrial pure held at the end of April was 211,707 gallons, against 186,919 gallons at the close of March. Stocks of all other grades on April 30 amounted to 102,-372 gallons, compared with 111,525 gallons held on March 31.

Xylol—Very little change reported with regard to this material, with demand said to be just about balancing production, and no large stocks reported to be on hand. No changes in quotations were reported during the week. Production of all grades during April totaled 591,609 gallons, compared with 602,170 gallons produced during March and 491,732 gallons in April, 1946. Stocks of all grades held on April 30 amounted to 554,958 gallons, against 484,829 gallons held the end of March.

Hydrogenated Solvents

Supply and demand continued to be in good balance, with both being maintained at a good level. The oil trade and the synthetic resins industry continued to show active interest in cyclohexanol, and demand for cyclohexanone was said to be holding up well. No changes in prices were reported during the week.

Coaltar Acids

Anthranilic—The resublimed grade continued to be in extremely tight supply, with the technical grade said to be somewhat freer. Firm prices continued at former levels.

Cleve's—No changes were noted in the market position of this acid, with movement limited almost entirely to regular contract customers in the dyestuff industry. No changes in quotations were reported during the period under review.

Picric — Representative quantities were reported to be on hand for current shipment and were said to be meeting the requirements of dyestuff producers. Prevailing prices showed no changes during the week.

Other Intermediates

Anilin Oil—While demand continued at a high level, the supply picture has shown a definite improvement and representative quantities were reported to be on hand for prompt shipment. No changes in quotations were reported during the period under review.

Catechol—Some decrease in demand has been reported during the past month, but advance commitments have indicated that demand will be maintained at a normal rate. Supplies were said to be ample and firm prices continued at former levels.

Phthalic Anhydride — Most producers could see no relief in sight from the extremely short supply conditions that have existed for some time and shipments continued to be behind schedule. Heavy demand continued for use in synthetic resins and enamel finishes and manufacturers of anthraquinone were issuing a steady call.

Resorcinol—Reported to be in good supply, with prompt shipments being made of any reasonable quantity. Some slackening of demand was noted during the past month, but call is expected to be maintained at a normal level. No changes in quotations have been reported in some time and the price structure has developed a firm tone.

Coaltar Colors

Demand for home requirements and for export has been sufficient to check stock accumulations and the general market has continued tight. Export shipments of sulphur black in January amounted to 464,000 pounds while the outflow of synthetic indigo registered 452,000 pounds. Total exports of other dyes was 3,047,000 pounds. March production of C.I. 202 chrome blue black E amounted to 50,314 pounds. Output of C.I. 581 direct black Ew. registered 804,040 pounds in March, against 779,-905 pounds in the preceding month. Production of C.I. 1114 anthraquinone vat blue BCS 20 percent amounted to 120,937 pounds in March, compared with 161,925 pounds in February. Production of E. P. 302 naphthol A S in March was 124,442 pounds.

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Surplus Materials

—Continued from page 4

Thinners, various, four lots, 865 gallons, 25 cents to 45 cents per gallon, New York, NYO-75-1362.

Toluene substitute, 7,014 gallons, 25 cents per gallon, New York, NYO-75-1362.

VMP naphtha, 855 gallons, 18 cents per gallon, New York, NYO-75-1362.

Zinc acetate, reagent, 1,500 ounces, Seattle, SEL-41-42477, June 13.

The Philadelphia regional office is offering 13,000 cases of twenty-five ampuls (0.5 grain) of sodium-pentathol to nonprofit hospitals and institutions at $2.50 each. They formerly were sold at $14.25.

The Seattle regional office has listed in special offering SEO-71-1192 the following empty used cylinders:—

Carbondioxide (50-pound), 32 for $260.

Freon (50-pound), 155 at $6 each.

Nitrogen (65-70 cubic feet), 28 at $5 each.

Oxygen, shatterproof (57 cubic feet), 64 at $4 each.

The Philadelphia office is offering for sealed bids up to June 17 three mixers of 10 pounds capacity which were used on primer explosive compositions. It also has a dust collector with a capacity of 600 cubic feet per minute. Particulars are in special offering PHO-67-518.

Bids Wanted

—Continued from page 4

Chemical Center (Edgewood Arsenal, Md.) invitation CM-182, June 24; various, 800 gallons, Army Chemical Center, invitation CM-169, June 23; 185 gallons, Army Air Corps (Kelly Field, Texas) invitation 60, June 13; 720 gallons; Veterans Administration (Dayton, Ohio) invitation 47-449, June 11.

Petrolatum, 3,200 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8647, June 16.

Phosphatizing material, 8,800 pounds, Army Ordnance Department (Metuchen, N. J.) invitation 265, June 23.

Protective compound, 21,700 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 267, June 12.

Serum, virus and vaccine, as required during fiscal year 1948, Department of Justice (Chillicothe, Ohio) invitation 5-2727, June 12.

Soap, paste, 3,400 pounds, Treasury Department (Chicago 6, Ill.) invitation CH-4746, June 12.

Sodium thiosulphate, 30,000 pounds, Army Map Service (Washington 16, D. C.) invitation 42, June 13.

Thinner, lacquer, 2,000 gallons, Army Chemical Center (Edgewood Arsenal, Md.) invitation CM-172, June 13.

Triacetin, 2,000 pounds, Army Ordnance Department (Dover, N. J.) invitation 184, June 27.

Trisodium phosphate, 10,000 pounds, Panama Canal Purchasing Officer (Washington, D. C.) schedule 8647, June 16.

Turpentine, 220 gallons, Army Chemical Center (Edgewood Arsenal, Md.) invitation CM-169, June 23; 7,200 gallons, Army Engineers, Purchasing Branch (Washington 25, D. C.) invitation 47, June 16.

National Sales Director

T. F. Brennan, formerly sales division manager in charge of non-food containers for the Atlantic division of American Can Company, has been appointed to the general sales department. He will supervise nationwide sales of all types of non-food containers.

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Agricultural Chemicals

Buying interest for contract shipments of potash was active last week. While a sizable amount of contract business was written, producers have been forced to keep sales in line with last year, regardless of the buyer disposition in many instances to expand commitments. Interest has also increased in future shipments of ammonia sulphate and superphosphate. It is stated that many contracts in these materials expire on June 30. To date, no future prices have been announced. There has been a drift by the steel companies, utilities and other producers of ammonia sulphate to sell direct, and one prominent steel company is expected to take the lead in naming prices for the new fertilizer year. Stocks at present are low and hardly flush with demand, although the steel companies have been running near capacity. It is asserted that if export shipments of ammonia sulphate had not been under control, the domestic supply would have reached a definitely critical stage. The firm background of superphosphate has led to the belief that new contract prices will at least be sustained at current levels.

Packing-house by-products did not uncover any new price changes during the past week. Feeders supported the market sufficiently to maintain former trading levels. It was stated that most of the prospective production of menhaden fish scrap is under contract. In the insecticide market, a decline in price was noted in benzene hexachloride as a result of competition accompanying an increase in production. All of the arsenicals remained tight and the overall supply situation had a spotty appearance.

Nitrogenates

Ammonia Sulphate—Market situation firm with feeling rather bullish regarding future contract prices. Current shipments confined almost entirely to contracts which appear to have absorbed increased production readily. Export demand reported active with government control placing a curb on the amount of business that can be placed. Production in April was placed at 130,000,659 pounds by the Bureau of Mines. March output amounted to 135,353,986 pounds and in April, 1946, production registered 94,443,048 pounds. Stocks at the end of April were 39,081,792 pounds, compared with 65,438.724 pounds on March 31 and 30,351,505 pounds on April 30, 1946.

Bone Meal—Feeders have contributed enough buying interest to hold the market steady. Stocks not excessive but meeting current requirements without difficulty. Arrivals of 500 bags at Norfolk were noted.

Castor Pomace—Shipments against contract accounts have constituted the chief movement of this material during the past week.

Dried Blood—Trading was not unusually active. Limited offerings were taken by feeders at former price levels, but support was not sufficient to advance quotations.

Fish Scrap—According to trade reports the major part of the prospective menhaden output is now under contract. The tone of the market was firmer without revealing any important change in prices.

Hoof Meal—Prices were maintained in a relatively quiet market. Importations of 1,026 bags of hoof meal and 104 bags of horn meal were reported from South America at Norfolk.

Soda Nitrate—Consuming demand has continued above the supply limit. The rapid absorption of importations and domestic production has kept buying conditions definitely tight.

Tankage—Feeders have purchased this material at former prices. Demand and offerings were about in balance. Importations included 1,816 bags of liver tankage from South America.

Phosphates

Phosphate Rock—Buying conditions are tight at present. Production is gradually expanding and is expected to increase during the coming year.

Market Trends

Prices Advanced

None

Prices Reduced

Benzene hexachloride, 2½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
71.5	71.5	71.5	71.8

(For Current Prices see Page 9)

Allocation recommendations will be discontinued entirely on June 30.

Superphosphate—Market supply position has remained tight in this area so far as immediate shipments are concerned. Trade reports indicate that most of the requirements for the South have been covered and that the edge is off demand from that area. Inquiry from the middlewest has remained active. It is expected that a number of contracts will expire at the close of the month and interest is gaining in new contract figures. The higher prices recently named for phosphate rock have given the impression that current prices at least will be sustained.

Potashes

Producers have written considerable contract business covering 1947-1948 shipments. Buying interest has continued exceedingly active with buyers endeavoring to increase commitments over the quantities purchased in the past year. While domestic production is expected to be as great in the coming fertilizer year as in the preceding year, the amount required for export is uncertain at present. The divergencies in prices and the inability to determine either quantity or distribution of supplies from Germany and Spain are expected to continue over the greater part of the new year although it is admitted that foreign production could increase sufficiently to meet most requirements. For these reasons the committee on fertilizers has recommended the discontinuation of allocation for potash at the beginning of the new fertilizer year July 1.

Markets at Other Centers

Los Angeles — Business in organic materials was fairly steady here this week. Other chemicals were moving slowly, with prices unchanged.

Ruling quotations were: — Ammonia nitrate, $55 per ton with freight allowances up to $4.40 per ton from production plant. Ammonia phosphate, $52.80 per ton for 16/20 grade and $66.20 for 11/48 delivered at production plant. Ammonia sulphate, $38 per ton with freight allowance up to $4.40 per ton from California plant. Canadian material $41.85 per ton in California plant. Blood meal, $6.50 per unit of ammonia, f.o.b., this city, plus bags. Bone meal, $60 to $62 per ton for steamed 1 x 30 meal. Fish meal, $162.50 per ton in cars for 65 percent protein California sardine meal, f.o.b., production plant. Nitrate of soda, $41.50 per ton in 100-pound bags. Potash sulphate, 95 to 98 percent K_2SO_4 in bulk 74c. per unit, f.o.b., Trona. Superphosphate, $18.20 f.o.b., cars Los Angeles bulk, and $22.20 in bags. Tankage, dry rendered, ground 50 percent, $5 to $5.50 per unit of ammonia at production plant.

Insecticides

Department of Commerce does not take a very optimistic view of the supply situation for some of the important insecticides. It is pointed out that a serious infestation this year may find stocks insufficient to meet control requirements. Arsenicals are in a definitely tight position. Supplies of rotenone are low but receipts from South America may meet essential requirements. Paradichlorobenzene stocks are short at present. Nicotine sulphate and DDT output is below current demand. On the other hand, copper sulphate stocks are normal and there is enough pyrethrum to go around. Containers continue in critical supply and the amount of boxcars available is below the seasonal average.

Increased production of benzene hexachloride has resulted in lower prices being established. Demand for this insecticide is taxing output and considerable export inquiry has developed for shipment. Aside from its efficiency in destroying the boll worm in cotton, it has worked favorably in killing the wire worm in cabbages. It is decidedly effective in curing mange and destroying lice, in fact new uses are continually mounting. The market position is competitive with current prices at 47½c. per pound in drums, carlots and 52½c. for less. Dry dust 50 percent is held at 37.4c. in drums, carlots and 42.4c. for less. Wet 50 percent is priced at 44c. per pound in carlots and 46c. per pound for less. All prices f.o.b. the works.

Sulphur and Pyrites

Sulphur is experiencing an active consuming demand for miscellaneous requirements. The favorable supply position and the improvement in transportation facilities has permitted prompt shipments from mines. Spanish pyrites has continued in short supply owing to the suspension of shipments resulting from a coal strike in Spain which has stopped operations at the mines. Meanwhile, prices are nominally unchanged.

Batavia advices state that sulphur mines at Goenong Soepitan, North Celibes, whose installations were completely destroyed during the war, have been taken over by the mining section of the Netherlands Indies Government. These mines supplied the sugar and petroleum industries in that area with sulphur before the war.

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For Late Market Developments, See Page 4

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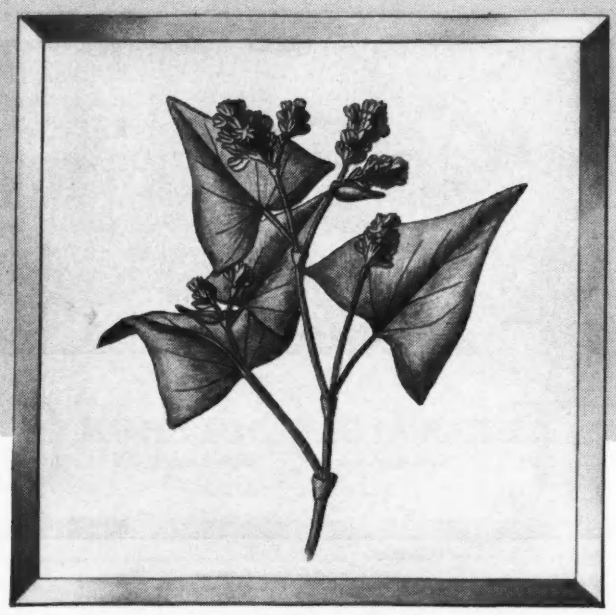

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Baker's Chemicals

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Drugs and Fine Chemicals

All kinds of glycerin underwent a sharp decline last week. It was the second reduction within a limited period of time and was far more severe than the first decline that began the movement of glycerin prices toward a normal basis. However, even at this recent decline, prices were still far above the level prevailing when price control was removed and the market allowed to seek the high level then warranted by the prices paid for soapers raw materials. The two price declines—especially that reported last week—reflected the steady declines of prices for oils, fats, and tallow used by soap manufacturers. On the side of lower prices also came movements in all varieties of aloe without, however, bringing a further drop in quotations on aloin.

Menthol prices continued to advance and the rise partially offset the decline in glycerin as a factor in producing the index number in this market. The Brazilian market has shown substantial strength and advance in replacement cost of late and was the activating factor in the spot market last week. The Reconstruction Finance Corporation offered approximately 1,200 cases of Japanese menthol for sealed bidding on the basis f.o.b. ship, Japanese port. Also, about 80 tons of Japanese refined camphor are up for bidding on the same basis.

Alcohol data released by the Alcohol Tax Unit of the Treasury Department and covering operations for 10 months of the fiscal year of 1946-1947 against that of 1945-1946 showed that total production this fiscal year is far below that of 1945-1946. Also with the exception of potatoes, consumption of all kinds of raw materials in the production of industrial alcohol has decreased sharply. Potato consumption, however, has risen substantially.

The total March production of acetanilide, acetone, acid acetylsalicylic, acid ascorbic, butyl alcohol, dibutyl phthalate, ethyl acetate and ether, ethyleneglycol, formaldehyde, natural and synthetic methanol, niacin and niacinamide, phenobarbital, pyridoxin hydrochloride, some sulpha drugs, and thiamine hydrochloride was 164,564,729 pounds, comparing with 143,247,660 pounds produced in February, according to the U. S. Tariff Commission. This was a sharp reversal of the downward production trend in February as compared with January figures. Production of all materials, except dibutyl phthalate, ethyl ether, niacin and niacinamide combined, and some sulpha drugs, was larger in March. Also, production of penicillin and ergosterol increased a total of 1,724,231 million units.

Acetanilide — March production gained over that in February. According to the figures released by the U. S. Tariff Commission, output in March totaled 883,338 pounds, compared with the February total of 559,542 pounds.

Acetone—A substantial increase in production over that in February was reported for March in figures supplied by the U. S. Tariff Commission. The March total was 30,301,833 pounds; in February, it was 27,876,019 pounds. Demand continued active throughout the past week.

Acid, Acetylsalicylic—Output figures as supplied the U. S. Tariff Commission for the month of March recorded a very sharp drop. The total for March was 831,606 pounds, while in February it had been 1,023,817 pounds. Offerings were conservative last week and the market held a firm undertone.

Acid, Ascorbic—March production increased from the February figures supplied by the U. S. Tariff Commission. The production totaled 102,063 pounds, comparing with 82,113 pounds produced in February.

Acid, Citric — Demand was very good. Consumption shows a rising curve of moderate proportions at this time and the outlook for business during the Summer months was said to be very good.

Market Trends

Prices Advanced

Menthol, 25c. per lb.

Prices Reduced

Aloe, Cape, 2c. per lb.
Curacao, 4c. per lb.
Socotrine, 1c. per lb.
Glycerin, saponification, 4c. per lb.
soaplye, 4c. per lb.
refined, USP, 10c. per lb.
dynamite, 10c. per lb.
heavy gravity, 10c. per lb.
yellow distilled, 10c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
253.7	253.5	252.7	213.2

(For Current Prices see Page 9)

Acid, Tartaric—Some talk about prices being reduced still further has been heard but the domestic producers at the moment apparently are holding a very steady schedule of values backed by fair demand.

Alcohol—The total production of pure, completely denatured, and specially denatured alcohol over the period July 1, 1946, through April 30, 1947, was 352,605,493 gallons, which compares with 477,882,041 gallons produced in the corresponding 10 months of 1945-1946. The total of all grains and grain products consumed during the 10 months was 414,975,758 pounds in 1946-1947, against 1,242,736,578 pounds consumed in the 1945-1946 period. Consumption of potatoes was 563,175,708 pounds in 1946-1947, comparing with 132,691,625 pounds in the corresponding 10 months of 1945-1946.

Molasses consumption totaled 51,920,518 pounds in 1946-1947, while in the corresponding period in 1945-1946 consumption of molasses was 96,624,020 pounds. Except for potatoes, raw material consumption in every category dropped sharply in the 10 months of 1946-1947, while that of potatoes showed a phenomenal rise. The figures provided by the Alcohol Tax Unit of the Treasury Department also reported that during the 10-month period, 5,188,274 gallons of imported alcohol were mixed with domestic alcohol in bonded warehouses, comparing with 12,005,963 gallons so mixed in the 1945-1946 period.

The following alcohol data were released last week by the Alcohol Tax Unit, Bureau of Internal Revenue, and compared production, withdrawals, and stock of ethyl, completely denatured, and specially denatured alcohol in April, 1947 and 1946:—

Alcohol Data: April

	—Proof gallons—	
Production—	**1947**	**1946**
Ethyl	23,556,435	24,902,218
*Completely denatured	1,652,153	81,012
*Specially denatured	12,021,318	13,179,822
	—Wine gallons—	
Withdrawals—	**1947**	**1946**
Ethyl,† tax paid	2,555,319	4,410,694
tax free	28,099,749	24,968,149
*Completely denatured	1,655,279	80,699
*Specially denatured	16,813,294	15,651,938
Stocks—		
Ethyl†	26,853,334	118,419,863
*Completely denatured	90,804	39,115
*Specially denatured	1,621,451	13,300,216

* Wine gallons.
† Proof gallons.

Aloe—The market has eased substantially. Cape material was down to 37c. to 38c. per pound; Curacao, 38c. to 39c.; and Socotrine, 46c. to 47c. Considerably more competition was current locally and the trend was definitely in favor of buyers.

Aloin—Continued decline in raw material prices has not brought added reductions in the quotations on aloin but the market was moderately easy as quoted and the tendency toward more active competition continued.

Amyl Acetate—The U. S. Tariff Commission has provided no production figures for the month of March. In February, output totaled 924,623 pounds.

Atropine—Demand was about all the producers could fill and the scarcity of raw material continued an active deterent to the creation of substantial reserves in the hands of the makers. Prices were fully firm.

Butyl Acetate — Producers have given no intimation of an early change in their current schedule. The basic raw material of some manufacturers occupies an exceptionally strong position at the moment and unless a change not now foreseen shall come in the prospects for the next crop of

For Late Market Developments, See Page 4

ALKALOIDS
GLUCOSIDES — DRUG EXTRACTIVES

1917

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corn, the future in derivatives would appear to be committed to strength.

Butyl Alcohol—According to the U. S. Tariff Commission, March production rose to 10,521,123 pounds from the February total of 8,729,231 pounds. The spot market last week showed a substantial degree of price stability. Demand was very good and the outlook for some raw material costs and supplies was adverse for the time being at least.

Borax—Prices were well stabilized. Shipments into consuming channels were up to expectations and acceptances of tenders were mainly satisfactory despite a drop in the immediate requirements of some consuming industries.

Caffeine—Demand continued fairly broad and reasonably active. Production costs have made necessary a well stabilized price schedule and the principal producers continued to take a firm view on the market.

Camphor — Prices continued unchanged. Raw material has been on the up trend of late and a floor has been placed under prices in the primary market where government support prices are in effect. Demand for camphor continued active.

The Reconstruction Finance Corporation will sell on sealed bid approximately 80 tons of Japanese refined camphor in tablet, slab, and powder forms, in 50 kilo, net, cases. Bids must be received on or before 12 o'clock noon, June 23, 1947. The goods will be sold f.o.b. ship, Japanese port. Further information regarding terms and conditions of sale will be mailed on request made to the U. S. Commercial Company, Washington 25, D. C.

Castor Oil—The recent and well sustained weakness in castor bean prices in Brazil has had its effect on the consuming market for oil in this country. Buyers have become cautious, expecting a further decline in prices that may come at any moment.

Total arrivals of beans from Brazil since January 1 is now 770,987 bags, or 115,634,050 pounds, which compares with 663,221 bags, or 99,483,150 pounds arrived in the corresponding period in 1946.

Dibutyl Phthalate—March production totaled 1,720,649 pounds, which compares with February at 1,949,696 pounds. It was one of the few synthetic organic chemicals showing a decrease in March output as compared with that in February. Producers continued to maintain reasonably stable prices and indicated last week the likelihood of stability being continued.

Dibutyl Sebacate—Efforts to obtain a firm schedule of prices continued to fail and a purely nominal situation prevailed in that aspect of the market.

Dimethyl Phthalate—The market continued steady in price with offerings being moderately conservative and reserves not much in excess of needs foreseeable at the present time.

Ergosterol—According to the U. S. Tariff Commission, production in March increased over that in February, totaling 2,470,272 million units, as compared with 1,206,426 million units in February.

Ethyl Acetate—Total production of 85 percent material in March increased to 7,902,389 pounds from the February total of 7,083,659 pounds, according to the latest data released by the U. S. Tariff Commission. Producers of this solvent made no change in their June schedule, maintained steady prices and intimating that they were about as high as they can be under present conditions.

Ethyl Ether—Production of technical and USP ethyl ether in March

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decreased to 3,487,683 pounds from the February combined total at 3,517,751 pounds, according to the U. S. Tariff Commission.

Ethyleneglycol — March production gained over that in February. The total was 15,115,661 pounds, comparing with February at 14,670,291 pounds, cc. The figures come from the U. S. Tariff Commission.

Formaldehyde—Production increased in March over that in February, according to the latest production data supplied by the U. S. Tariff Commission. The March total was 45,402,073 pounds, against February output totaling 41,605,947 pounds.

Glycerin—A sharp decline—10c. per pound—took place in refined glycerin early last week. The decline in crude and saponification glycerin was 3c. per pound. Quotations on USP, heavy gravity, dynamite, and yellow distilled glycerin became as follows: Tanks, 40c. per pound; drums, carlots, 40¼c.; less than carlots, 40¾c. Soaplye crude was down to 26c. and saponification dropped to 29c. The prices on refined, USP glycerin was 18c. per pound when price control ended.

This second and much sharper decline in prices reflected the recent and sustained decline in the prices of many oils, as well as fats and tallow, used by the soapers. Prices for soaps have also been on the down trend. All of this tends to make the glycerin market move further in the direction of much easier and more competitive conditions.

Iodides—The schedule still remained out of adjustment with the present price for crude iodine. The latter was advanced sharply some time back but the iodide makers apparently have been producing from crude bought before the advance took place.

Menthol — The market continued to advance and sales were reported made last week on the basis of $8.75 per pound for Brazilian material despite the fairly substantial arrivals from that country during recent periods. Prices in Brazil have been tightening for some time back.

The Reconstruction Finance Corporation has called for sealed bids on approximately 1,200 cases of Japanese menthol packed 12 fine-pound tins to the case. The goods will be sold f.o.b. ship, Japanese port. Bids must be received on or before 12 o'clock noon, June 23. Further information may be obtained by addressing the U. S. Commercial Company, Washington 25, D. C.

Methanol — Despite comparatively high cost, foreign manufactured methanol is finding a market in this country. During the past week 638 drums of synthetic material reached New York from Antwerp, but it was suggested that the actual point of manufacture had been Sweden. This shipment was the first importation since the beginning of World War No. 2 and was subject to a duty of 18c. per gallon.

The March production of both natural and synthetic material increased over the February output, according to the latest data of the U. S. Tariff Commission. March production of natural material totaled 1,293,924 pounds, while in February the total was 1,121,640 pounds; synthetic, March, 46,418,582 pounds, against February at 44,361,941 pounds.

Molasses—According to the most recent data provided by the Alcohol Tax Unit of the Treasury Department, consumption of molasses in industrial alcohol production in April totaled 7,770,129 gallons, which compares with 8,253,636 gallons consumed in April, 1946. Total consumption during 10 months of the fiscal year begun July 1, 1946, was 51,920,518 gallons, comparing with 96,624,020 gallons consumed in the corresponding 10 months in the 1945-1946 fiscal year.

Niacin, Niacinamide—Combined in a single total of production, March output decreased to 97,119 pounds from the February combined total at 121,824 pounds, according to the U. S. Tariff Commission.

Penicillin — March production was 2,679,318 million units, an increase from the 2,228,933 million units produced in February, according to the U. S. Tariff Commission.

Phenobarbital—The latest data on production as issued by the U. S. Tariff Commission, state that in March it was 36,575 pounds, a rise from February output at 24,754 pounds.

Pyridoxin Hydrochloride — March

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Ethyl Caffeate, C.P.

Props: Yellow to tan crystals, M.R. 144-147° C; ash: 0.1% maximum; very soluble in alcohol; insoluble in water.

Uses: Food antioxidant.

o-Chloromercuriphenol

Props: Fine white crystals; melting range: 143-5° C; soluble in water and alkalis; insoluble in alcohol.

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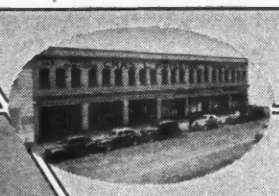

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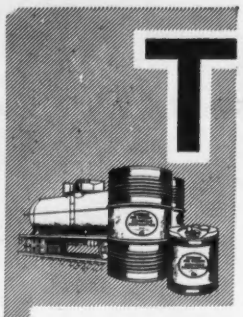

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production was slightly more than that in February, being 1,627 pounds as against 1,599 pounds produced in February, according to the U. S. Tariff Commission.

Sulpha Drugs—Production of sulphathiazole in March was 233,087 pounds. The U. S. Tariff Commission provided no February output figures. Production of all other sulpha drugs in March decreased to 425,914 pounds from the February output at 499,588 pounds.

Thiamine Hydrochloride — Output was upped in March to 18,582 pounds from the February total of 18,248 pounds, according to the most recent data released by the U. S. Tariff Commission.

Silver Iodide—It is not impossible that experiments in Australia might widen the market for this iodide. A cable despatch from Melbourne stated that silver iodide could be used artificially to produce snow in moisture laden clouds. Such snow has been produced there by dropping solid carbon dioxide into the clouds from airplanes, an achievement previously accomplished by scientists in the United States. The Australian scientists say silver iodide would do the same thing.

An American Nobel Prize winner said last week that solid carbon dioxide the size of a pea for a distance of 2,000 feet, might produce sufficient ice nuclei for several tons of snow. The United States Signal Corps, seeking a way to disperse fog over airports, has entered into a research contract to that end with the company for whom this American scientist directs research. Might one say that some clouds in the future may have a silver lining?

Silver Nitrate—Prices remain unchanged at the level set before the recent drop in silver bullion to 70¾c. per ounce, which equaled the low first established for this year on January 20.

Silver Bullion Price Range

	Per ounce — New York	Per ounce — London
High	Mar. 6—86⅛c.	Jan. 2—55½d.
Low	Jan. 20—70¾c.	Feb. 5—44d.

Trade Briefs

Nopco Chemical Company, Harrison, N. J., is offering 25,000 shares of four percent cumulative preferred stock, $100 par value, at $102.50 and accrued dividends.

Victor T. Norton has been elected president of American Home Foods, Inc., New York. He was formerly executive vice-president of the company.

T. H. Lyons has been elected president of I. L. Lyons & Co., toilet goods and drug wholesaler, New Orleans, to succeed Irving L. Lyons, who is now chairman of the board.

North American Philips Company, Inc., laboratory equipment manufacturer, New York, offers a two-page chart (R-1066) titled "Basic Characteristics of Useful Industrial Laboratory Instruments" which is available upon request to the company at 100 East 42nd street, New York 17, N. Y.

Detroit Drug Group Plans Golf Tourney

Allied Drug and Cosmetic Association of Michigan in Detroit will be host to the Chicago and St. Louis groups on Tuesday, June 24, when they hold their annual tri-city golf meet at the Birmingham Country Club.

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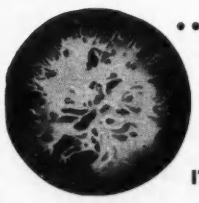

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Shifted by Mathieson

H. Webster Stull has been appointed to the newly created post of director of personnel at Mathieson Alkali Works, New York. Formerly, he was head of the company's legal department.

Kodak Reveals 'Spot Check' For Bikini Radioactivity

Eastman Kodak Company, Rochester, N. Y., has revealed that tests for radioactivity made by the company for sixty days following the aerial atom bomb blast at Bikini last July showed no significant dissemination of radioactive dust.

The tests were described as "spot checks" rather than exhaustive scientific research. They were conducted to learn possible effects of the bomb's radioactive fission products on the photographic industry and showed such low values as to be classified "negative," the company stated.

Cotton samples in open film containers were set out to collect dust from the air on July 1, date of the Bikini air explosion, the company explained.

Exposed for sixty days, the samples were returned to Rochester where radioactivity measurements of the dust accumulated on the cotton were made in Kodak Research Laboratories.

The company stated that the measurements, while revealing enough radioactivity to indicate the method of collecting dust from the air had some merit, "showed such low values as to be without definite significance as to dissemination of radioactive dust" from Bikini.

Whale Oil Tonnage Arrives in Liverpool

A cargo of 13,500 tons of whale oil, 400 tons of sperm oil and 1,315 tons of meat meal has arrived in Liverpool, England, from the Antarctic. The British Ministry of Food will distribute the materials.

Abbott Lab Joins Vitamin Foundation

Abbott Laboratories, Chicago, has joined National Vitamin Foundation, Inc. There are now twenty-one members supporting the vitamin research progrom being conducted by the foundation.

Gen. Magnesite Raises Begien

General Magnesite & Magnesia Company, Philadelphia, has appointed John T. Begien general manager to replace Ralph E. DeTurk, who has left the company. Mr. Begien was formerly assistant general manager.

Trade Briefs

Trans-Arabian Oil Company has been granted permission by the Syrian government to build a pipeline across Syria.

'Antoxol' is now being manufactured by Eronel Industries, Los Angeles, which claims that it gives permanent flameproofing protection to textilaneous materials.

Marine Magnesium Products Corporation, South San Francisco, has published a brochure called "Magnesium Salts From the Sea." The pamphlet is available upon request to the company.

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Philadelphia Chemists Name Hersberger

Dr. Arthur B. Hersberger, divisional director of research and development of the Atlantic Refining Company, has been elected chairman of the Philadelphia section of the American Chemical Society for 1947-1948. He will take office on July 1, succeeding Professor Floyd T. Tyson of Temple University.

Other new officers of the section are:—Dr. C. H. Fisher, head of the carbohydrate division of the Eastern Regional Research Laboratory, vice-chairman; Dr. William G. Batt, of the Biochemical Foundation, Newark, Del., secretary; Dr. Charles F. Krewson, of the Eastern Regional Research Laboratory, assistant secretary, and William H. Hughes, of the Philadelphia Textile Institute, treasurer.

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British Medicine Sale Control Recommended

The British Pharmaceutical Society has recommended rigid government control of the sale and advertising of patent medicines, in a report which said that the public interest required legal safeguards.

Yale Promotes Three In Chemistry Department

Yale University last week elevated Harding Bliss to a full professorship in chemical engineering and Werner Bergmann and Benton B. Owen to full professorships in chemistry.

Organic Chemistry Symposium Scheduled

Recent advances in the study of antimalarial agents, sex hormones, and some chemical constituents of the nerves and brain will be reported by leading chemists from the nation's laboratories of education and industry at the tenth national organic chemistry symposium of the American Chemical Society to be held in Boston, June 12-14, under the joint auspices of the society's division of organic chemistry and Northeastern section.

Dr. James B. Conant, president of Harvard University, will be honorary chairman of the symposium, and will speak at the symposium dinner on June 13, at the Statler hotel, headquarters for the meeting.

Professor Arthur C. Cope, head of the department of chemistry in the Massachusetts Institute of Technology and chairman of the division, will preside at the technical sessions, all of which will be held in New England mutual hall, 225 Clarendon street.

Dr. Conant will open the symposium with an address of welcome on June 12, and Dr. Roger Adams, chairman of the society's board of directors and of the department of chemistry in the University of Illinois, will respond.

A report on "Naphthoquinones," a class of compounds used in fighting malaria, will be presented by Professor Louis F. Fieser of Harvard at the first session. Professor Charles C. Price, head of the department of chemistry in the University of Notre Dame and 1946 winner of the $1,000 American Chemical Society Award in Pure Chemistry, also will speak that morning. Scheduled to present papers that afternoon are:—Professor Melvin S. Newman, of Ohio State University; Professor Paul D. Bartlett, of Harvard, and Professor H. R. Snyder, of the University of Illinois.

Investigations dealing with certain fatlike substances found in nerve tissue will be described by Professor Herbert E. Carter, of the University of Illinois, in a report on the "Chemistry of the Sphingolipids" on June 13. Professor Cope also will give a paper at this meeting.

"The Synthesis of Some Compounds Related to the Female Sex Hormones" will be discussed by Professor A. L. Wilds, of the University of Wisconsin on the afternoon of June 13. Others who will offer papers at this session are:—Dr. Chester M. Suter, associate director of the Sterling-Winthrop Research Institute, Rensselaer, N. Y., and Professor William S. Johnson, of the University of Wisconsin.

Authors of papers to be heard on June 14 are Dr. Herman A. Bruson, of the Resinous Products & Chemical Company, Philadelphia, and Professor Richard T. Arnold, of the University of Minnesota.

An exhibit of apparatus used in organic chemistry research will be held in the chemistry department of M. I. T. on June 13. Dr. John C. Sheehan is chairman of the exhibit. Professor Paul D. Bartlett, of Harvard, is assisting Professor Cope on the general symposium committee. Registration for the symposium will start on Wednesday, June 11, when open house will be held at the Harvard chemical laboratory.

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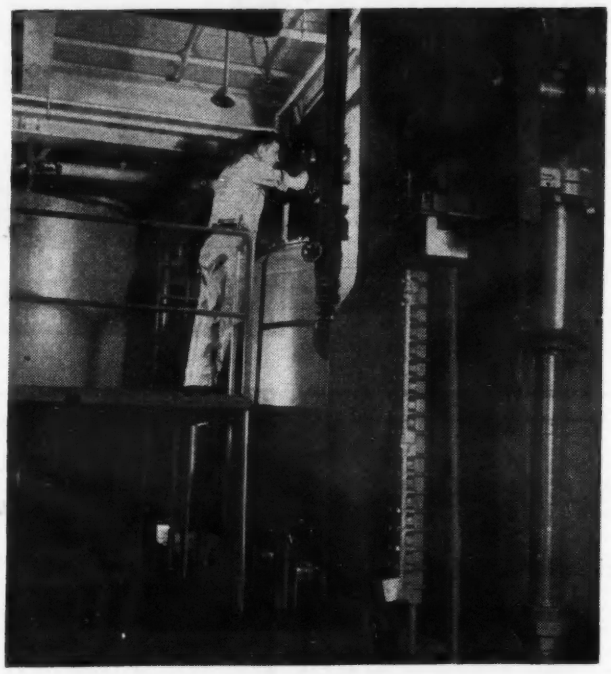

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NOPCO EVOLVED THRU RESEARCH

Trade Briefs

Rumford Chemical Works, Rumford, R. I., has appointed Robert P. Beaven to its technical service staff.

Chemical and pharmaceutical preparations imported into Iraq during July, 1946, amounted to 459 metric pared with 528 metric tons, with a value of $124,551, in February of the same year.

Pittsburgh Lectrodryer Corporation has retained Professors E. R. Queer and E. R. McLaughlin, both of Pennsylvania State College, as consulting engineers in the fields of solid adsorption, dehumidification and allied fields.

Henrik Mannerfrid, Inc., exporter of chemicals and pharmaceuticals, New York, has moved from the thirteenth floor to the eighth floor at 52 Wall Street. New officers of the company include Miss E. R. Gross, manager, Miss M. A. Niarakis, export manager, and Miss G. I. Loven in charge of the Scandinavian department.

Agriculture Dept. Issues Yearbook

The Department of Agriculture has published a new yearbook of agriculture for 1943-1947, called "Science in Farming," which is said to answer thousands of questions about recent developments in farming, gardening and homemaking.

Copies can be obtained at a cost of $2 from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. Each member of Congress has an allotment of the yearbook for free distribution, but no copies can be obtained from the Department of Agriculture.

Bristol Labs Adds Dr. Dickison to Staff

Bristol Laboratories, Inc., Syracuse, N. Y., has appointed Dr. Leo Dickison director of pharmacology research. He was formerly research associate in pharmacology and assistant professor of pharmacology at the Vanderbilt University Medical School.

Dr. L. Dickison

Dr. Dickison was graduated from Vanderbilt University in 1935 and received his doctorate from the same institution in 1939 for a thesis on "The Isomeric Thujyl Amines." During his period of study he was research assistant in pharmacology.

He is a member of the American Chemical Society and the American Society for Pharmacology and Experimental Therapeutics.

Chemical Workers Weekly Earnings Up

Weekly earnings of factory workers in chemical and related fields showed a light increase in March, as compared with February. A breakdown of the weekly earnings for the chemical and allied industries follows:—

	Weekly		
	Mar.	Feb.	Jan.
Chemical and allied products	$48.64	$48.17	$47.39
Ammunition	48.27	48.55	48.14
Chemicals	55.47	55.10	54.77
Cottonseed oil	35.38	35.77	35.91
Drugs, medicines, insecticides	42.86	43.15	41.86
Explosives, safety fuses	50.60	50.07	53.08
Fertilizers	34.42	33.44	33.44
Paints and varnishes	51.63	50.34	49.69
Petroleum refining	59.15	57.75	57.74
Rayon, allied products	47.92	47.31	44.14
Soaps	54.12	53.46	53.08

Balto. Sales Executives Headed by Crozier

The Executive Sales Club of Baltimore elected John A. Crozier, manager of Calvert Drug Company, president at its annual meeting, held recently at the Emerson hotel, that city.

Nopco Appoints Motz Sales Representative

Nopco Chemical Company, Harrison, N. J., has appointed George E. Motz sales representative for its industrial division to cover Alabama, Mississippi, Louisiana, western Tennessee and Arkansas. He will service the accounts of Metasap Chemical Company, a subsidiary of Nopco, as well as those of the parent organization.

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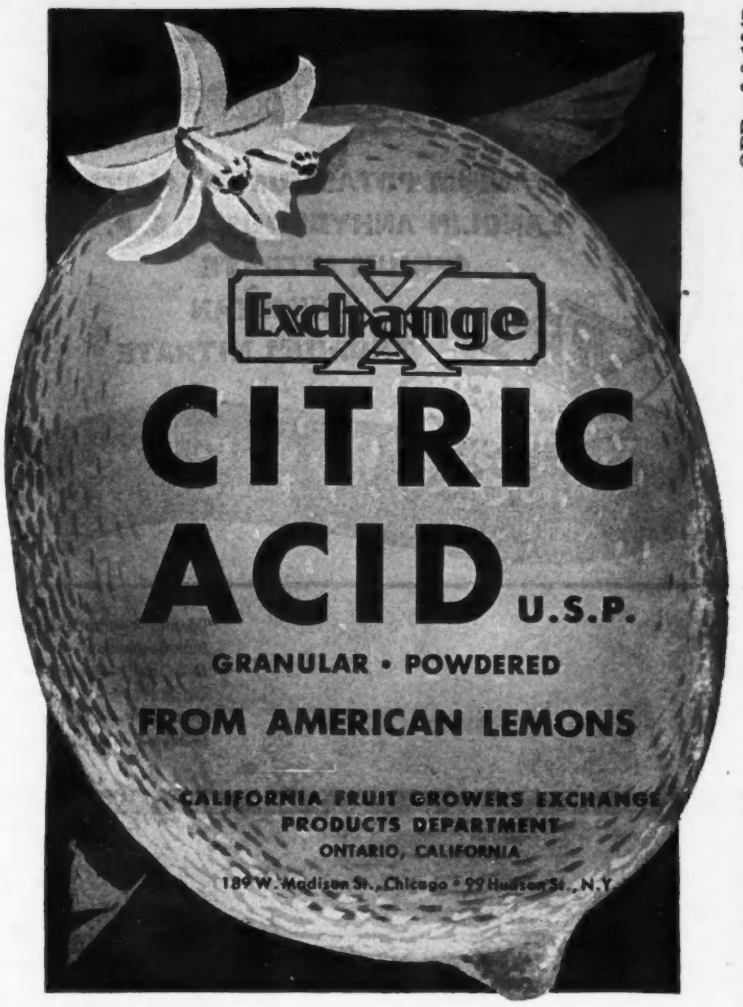

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5, 7-DIIODO-8-HYDROXYQUINOLINE

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5—CHLORO-7-IODO-8-HYDROXYQUINOLINE

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Ames Names Dr. Ettl Assistant Medical Director

Ames Company, Inc., pharmaceutical manufacturer, Elkhart, Ind., has appointed Dr. Edward J. Ettl assistant medical director for the company. Dr. Ettl, recently discharged from the Army Medical Corps, studied at Notre Dame University and received his medical degree at the University of Indiana.

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Chicago Chemists Elect Robinson

Dr. Herbert E. Robinson, assistant director of research of Swift & Co., has been elected chairman of the Chicago section of the American Chemical Society for 1947-48. He will take office on July 1, succeeding Professor Robert K. Summerbell, head of the department of chemistry in Northwestern University.

Dr. Charles L. Thomas of the Great Lakes Carbon Company was chosen chairman-elect. Dr. Albert E. Sidwell, jr., of the American Medical Association, was named vice-chairman; Dr. Floyd L. Kauffman of Swift & Co., secretary, and Dr. Carl S. Miner, jr., of the Miner Laboratories, treasurer.

McCarty on SARR Board

George W. McCarty, president and director of the Ashcraft-Wilkinson Company, fertilizer and feed materials, Atlanta, has been elected a member of the board of directors of the Seaboard Airline Railroad Company. He is a director also of two other Atlanta concerns, A. D. Adair and McCarthy Brothers, and of Interstate Mills, Inc., Cairo, Ill.

Pennsalt Representative

Ben P. Steele was recently named special representative at the New York office of Pennsylvania Salt Manufacturing Company, Philadelphia, to work in the export and resale chemical fields.

"Edamin"★—tryptic digest of lactalbumin
Bulk Casein Peptone
"N-Z-Case"★—laboratory casein peptone
Whole Protein—from milk
"Hy-Case"★—acid digest of casein
Edible and Industrial casein
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Lactose Impalpable
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More efficient aminos for protein therapy

The value of milk amino acid products in geriatrics and in the treatment of many other instances of protein deficiencies points to the broad demand to be enjoyed by pharmaceutical products supplying milk aminos.

For highest uniformity and efficiency in your amino-containing preparations, Sheffield offers "N-Z-Amine."★ As an enzyme hydrolysate of casein, obtained from fresh, fat-free milk, "N-Z-Amine" supplies the high biological values of top-quality casein. It is processed by a special Sheffield method that assures each batch of equal quantity and quality of amino acids—as indicated by the favorable response to "N-Z-Amine" in the many cases where it has been used in amino acid therapy.

"N-Z-Amine" contains in free and peptide form all the known milk amino acids. It comes in white powder form, and is relatively mild in flavor. The primary use of "N-Z-Amine" is as a supplement in protein-deficient diets, and for therapeutic use by oral administration to secure nitrogen balance. It can be flavored or compounded with carbohydrates, minerals, vitamins or other desired nutrients.

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Division of National Dairy Products Corporation

Monsanto Names Pratt To Two New Posts

Monsanto Chemical Company has appointed Dr. Lester A. Pratt assistant to the general manager of its Merrimac division, coincidentally with Dr. Pratt's being named president, general manager and trustee of the New England Alcohol Company, a Monsanto subsidiary.

He was formerly general sales manager of the Merrimac division and vice-president and general sales manager of the New England Alcohol Company.

Appointed to succeed Dr. Pratt as division general sales manager was Howard J. Heffernan, formerly assistant division general sales manager, and Frederick S. Hatch, assistant to the division general manager, was elected by trustees as vice-president of the New England Alcohol Company.

Italian Firm Seeks U.S. Raw Materials

Societa Mediterranea has been established in Milan, Italy, with a branch at 1186 Broadway, New York, for the purchase of raw materials for fifteen of the leading factories in the Mediterranean area. The factories manufacture shoe and metal polishes, cleaning fluids, soaps, cosmetics, insecticides, synthetic resins and powders, urea, plastics, colors and paints, and cork products. Telephone number of the New York office is Murray Hill 5-9601.

Sharp & Dohme Names Knott Phila. Manager

Sharp & Dohme, pharmaceutical manufacturer, Philadelphia, has appointed David V. Knott manager of its Philadelphia branch office, and has named Tink L. Johnson acting manager of the San Francisco branch office.

Mr. Knott has been branch manager at San Francisco since February, 1946, and has served in the same capacity in the Indianapolis, Detroit and Boston offices.

WAA Opens Export Office

OPD Washington Bureau

War Assets Administration has opened a new export office at 37 Broadway, New York. Regional sales for export are running in excess of $2,000,000 a month with the major portion going to Latin America.

Officials expect an increase in export business with the recent approval of credits for France, Finland and the Philippines for the purchase of war surplus.

Corn Products Names Mueller to New Post

Corn Products Refining Company has named William F. Mueller executive vice-president and general manager of its subsidiary, Dr. Swett's Root Beer Company. Mr. Mueller was previously advertising manager of the parent organization.

Rohm & Haas Making New Insecticide

Rohm & Haas Company, chemical manufacturer, Philadelphia, has developed a new insecticide, known as "Rhothane," which it claims possesses insect-killing power comparable to DDT and which is up to 1,800 percent safer to human beings, house pets and farm animals.

The new chemical, dichlorodiphenyldichloroethane, is similar to DDT in action, according to its maker, and will kill all insects that DDT kills. Tests have shown, Rohm & Haas says, that "Rhothane" is deadly to flies, bedbugs, fleas and roaches, and is the best known control for the destructive corn earworm.

The new product is being offered in four formulations: a dust concentrate; a wettable powder; a 25 percent emulsion concentrate, and a solution primarily for use in household fly sprays.

Alter Heads N.E. Chemists

Professor Chester M. Alter of Boston University has been elected chairman of the Northeastern section of the American Chemical Society for 1947-48. He will take office on July 1, succeeding Professor Chester P. Baker of Northeastern University.

Ernest C. Crocker of Arthur D. Little, Inc., Cambridge, was chosen chairman-elect. Thomas R. P. Gibb, jr., of Metal Hydrides, Inc., Beverly, was named secretary, and John O. Percival of the Monsanto Chemical Company, Everett, treasurer.

Ethyl Alcohol Use By Germans Described

OPD Washington Bureau

The Office of Technical Services, Department of Commerce, is now offering for sale a German technical monograph which declares that the original strength of spent steel-pickling liquor can be restored by the addition of ethyl alcohol followed by fractional distillation.

Orders for the report, PB-44958 ("Contribution to the Regeneration of Pickling Solutions"; photostat, $1; microfilm, $1; 6 pages; dated July, 1946) should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the United States.

Nash-Kelvinator Awards Contract to Bjorksten Lab.

Bjorksten Research Laboratories, Chicago, has been awarded a research contract relating to subjects pertinent to plastic fabrication by the Nash-Kelvinator Corporation. This is the second research contract awarded to the laboratories by Nash-Kelvinator.

Schering Assigns Dichter

Schering Corporation, manufacturer of hormone and other pharmaceutical preparations, Bloomfield, N. J., has appointed E. Richard Dichter to the staff. He formerly was consultant on raw materials for Schenley Distilling Corporation in South America. He has been assigned by Schering to develop improved techniques in biological production.

Chap Stick Faker Operating

The Chap Stick Company, Lynchburg, Va., reports that an individual has cashed checks in two Ohio wholesale drug houses after falsely representing himself as working for the Chap Stick Company.

Trade Briefs

Stanley J. McGiveran has been named general sales manager of the Kimble Division of Owens-Illinois Glass Company, Toledo, Ohio. Maxson A. Eddy is in charge of manufacturing for the division.

A. E. Staley Manufacturing Company, Decatur, Ill., has published a "Bibliography of 'Phytin' (calcium phytate, and 'Inositol'," containing research data of the two substances which the company now produces.

American Potash & Chemical Corporation is constructing a soda ash and borax plant and a power plant addition at Trona, Calif., which are expected to be ready for operation by 1948.

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ATLAS *Non-Ionic Emulsifiers:*

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Vitamin A Shortage? The Answer Is . . .

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Scarcity of Sharks Cuts Vitamin Supply

WASHINGTON, Jan. 18. (AP) James M. Lemon, chief of the technical branch of the Fish and Wildlife Service, said today a scarcity of sharks is threatening the nation's supply of vitamin A.

"The truth is," Lemon told a reporter, "our sources of supply for vitamin A afe drying up—and this is a vitamin that has not yet successfully been synthesized."

Carotene has been accepted as the International Standard for measuring Vitamin A activity.

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- SODIUM BROMIDE USP
- SODIUM IODIDE USP
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New York Imports

ALDER BARK—210 bls, Amtorg Trading Corp, Odessa

ANISE—150 bgs, W E Martin, Beirut

ANTHRAQUINONE—20 dms, Manufacturers Trust Co, Liverpool

ANTIMONY ORE—1,019 bgs, Philipp Bros, Arica—1,341 bgs, Philipp Bros, Antofagasta—345 bgs, J W Hampton, jr, & Co, Antofagasta—1,352 bgs, Watson, Geach & Co, Antofagasta—Regulus, 5,000 cs, Reconstruction Finance Corp, Hongkong

ARGOLS—550 bgs, Tartaric Raw Materials, Inc, Lisbon

ARSENOUS ACID—25 dms, J E Bernard & Co, Arica

ASPHALT, PETROLEUM — 67,307 bbls, Shell Oil Co, Willemstad, Curacao

BALATA—45 blocks, Schutte & Focke, Barranquilla—32 bgs, Bank of the Manhattan Co, Cristobal

BALSAM OIL—5 dms, C E Griffin Co, Cristobal

BAUXITE RESIDUE—1,000 bgs, Reichard, Coulston, Inc, Glasgow—1,000 bgs, Glasgow

BEES WAX—12 bgs, Mercantile Metal & Ore Corp, San Antonio—76 bgs, Mercantile Metal & Ore Corp, Talcahuano—395 blocks, Continental Bank Trust Co, Djibouti—174 blocks, Maison F Livierata, Djibouti—155 blocks, Guaranty Trust Co, Djibouti—291 blocks, Djibouti—30 bgs, Lenape Trading Co, Recife

BENZOIN GUM—10 bdls, R J Prentiss & Co, Singapore

BERGAMOT OIL—146 qtr cs, Corn Exchange Bank & Trust Co, Messina—101 half cs, Messina

BONES—19 bgs, Wilson & Co, Buenos Aires

CARNAUBA WAX—12 bgs, Hilton Davis Chemical Co, Cincinnati, Rio de Janeiro—11 bgs, P A Dana, Rio de Janeiro

CASSIA—300 bgs, A G Dunn, Hongkong

CASTOR BEANS—3,330 bgs, Bunge Corp, Recife—5,633 bgs, Baker Castor Oil Co, Recife

CHALK, PRECIPITATED—600 bgs, H J Baker & Bro, Liverpool

CHILLIES—129 bgs, Balfour, Guthrie & Co, Dar Es Salaam

CHROME ORE — 1,120,610 lbs, Frank Samuels & Co, Montreal, Lourenco Marques—8,963,580 lbs, Mercantile Metal & Ore Corp, Montreal, Lourenco Marques—4,271,500 lbs, E J Lavino & Co, Lourenco Marques

CINNAMON—30 bls, Carr Bros, Colombo

CLOVE OIL—10 cks, Madagascar Agencies, Tamatave—15 cks, Norda Essential Oil & Chemical Co, Tamatave

CLOVES—400 bls, A G Dunn, Tomatave—3,962 bls, Bankers Trust Co, Tamatave

COBALT, FINE—54 cks, African Metal Corp, Antwerp—Metal, 200 cks, African Metal Corp, Antwerp

CODLIVER OIL—672 dms, Bankers Trust Co, Reykjavik—1,183 dms, Upjohn & Co, Reykjavik—520 dms, E R Squibb & Sons, Reykjavik

COPAL GUM—138 bgs, E Miltenberg, Inc, Manila—560 bgs, O G Innes Corp, Singapore—350 bgs, American Cyanamid & Chemical Corp, Singapore—280 bgs, H P Winter & Co, Singapore—140 bgs, U S Industrial Chemicals, Inc, Singapore—1,879 bgs, O G Innes Corp, Matadi—686 bgs, H P Winter & Co, Matadi—600 bgs, S Winterbourne & Co, Matadi

CREAM OF TARTAR—200 bbls, T M Duche & Sons, Genoa—100 bbls, T M Duche & Sons, Lisbon

CRESYLIC ACID—24 dms, Allied Chemical Dye Corp, Glasgow — 170 dms, Republic Chemical Co, Glasgow—11 dms, United States Line, Glasgow

CROCIDOLITE ORE — 240 cs, L J Buck, Inc, Durban—5 cs, W Baxter, Durban

CYMBARUM OIL—45 dms, Lo Curto & Funk, Rio de Janeiro—40 dms, Norda Essential Oil & Chemical Co, Rio de Janeiro

DAMMAR GUM—50 cs, 336 bgs, France, Campbell & Darling, Singapore—210 bgs, G W S Patterson & Co, Singapore—50 cs, Thurston & Braidich, Singapore—100 cs, J W Hampton, jr & Co, Singapore—595 bgs, O G Innes Corp, Singapore—560 bgs, American Cyanamid & Chemical Corp, Singapore—210 bgs, Gillespie-Rogers-Pyatt Co, Singapore—140 bgs, U S Industrial Chemicals, Inc, Singapore—70 bgs, A J Wittenberg Corp, Singapore—70 bgs, W R Grace & Co, Singapore

DANDELION ROOT—10 bls, Amtorg Trading Corp, Odessa

DERRIS ROOT—80 bls, S B Penick & Co, Singapore

DYES, ANILIN—5 dms, Carbic Color & Chemical Co, Havre—24 dms, Sandoz Chemical Works, Havre

EARTH COLORS—263 bgs, American Dyewood Co, Rotterdam—3 cs, J Lee Smith & Co, Rio de Janeiro

ERATROPE—6 dms, L & R Organic Products Co, Liverpool

ERYTHRINA SEED—35 bgs, Merck & Co, Cristobal

FENNEL OIL BITTER—3 dms, Magnus, Mabee & Reynard, Barcelona

FENNEL SEED—265 bgs, Otto Gerdau Co, Bombay

FENUGREEK SEED—153 bgs, Otto Gerdau Co, Bombay

FISH LIVERS—6 bbls, Norwegian American Line, Bergen

FLEASEED — 130 bgs, Hartz Mountain Products Co, Bombay—Husk, 68 bgs, J E Bernard & Co, Bombay

FUEL OIL—109,195 bbls, Shell Oil Co, Fall River, Aruba—102,000 bbls, Standard Oil Co, N J, Aruba—107,320 bbls, Shell Oil Co, Curacao

GALLS—4 cks, Hugo Kastor, Buenos Aires—266 cs, Tupman, Thurlow Co, Buenos Aires

GALLNUTS — 67 bgs, Nyanza Color & Chemical Co, Lattakia

GERANIUM OIL—5 cks, Geo Uhe Co, Marseilles—3 dms, Lautier Fils, Inc, Pointe Des Galets—3 dms, New York Trust Co, Pointe Des Galets—1 dm, Schimmel & Co, Pointe Des Galets—3 dms, Dodge & Olcott Co, Pointe Des Galets—4 dms, Flora Essential Oil Co, Chicago, Pointe Des Galets—6 dms, Ungerer & Co, Pointe Des Galets—6 dms, Chase National Bank, Pointe Des Galets—2 dms, Pointe Des Galets

GLUE—100 bgs, Victor J Santiago, Barranquilla—2 bgs, Casein Co of America, Buenos Aires

GRAPHITE—4,500 bbls, Asbury Graphite Mills, Tamatave

GYPSUM—8,390 tons, United States Gypsum Co, Windsor—10,568 tons, United States Gypsum Co, Hantsport—1,550 tons, Newark Plaster Co, Walton

HAWTHORN BERRIES—9 cs, S B Penick & Co, Oporto

HENBANE LEAVES—21 bls, S B Penick & Co, Alexandria

HERBS, MEDICINAL—20 bls, R J Prentiss & Co, Antwerp

HO OIL—28 dms, Norda Essential Oil & Chemical Co, Shanghai

IRON OXIDE—120 bbls, J Lee Smith & Co, Malaga—216 bbls, C K Williams & Co, Malaga—100 bbls, Whittaker, Clark & Daniels, Malaga—106 bgs, Witco Chemical Co, Malaga

LEMONGRASS OIL—1 dm, Orbis Products Corp, Cristobal

LIME JUICE—52 cks, Dalton, Cooper, Inc, Port Spain

LIME OIL—2 cs, Lo Curto & Funk, Port Spain

LINSEED OIL—3,089 tons, Commodity Credit Co, Buenos Aires

LOCUST BEAN GUM — 50 bgs, Innis, Speiden & Co, Genoa

LUBRICATING OIL—10,260 bbls, Standard Oil Co, N J, Port Credit, Ontario

MAGNESIA CARBONATE—900 bgs, Schofield, Donald Co, Glasgow

MAGNESIA HYDRATE—10 bgs, Schofield-Donald Co, Glasgow

MANGANESE DIOXIDE—100 cks, Liverpool

MANGROVE BARK — 1,000 bgs, River Plate Import & Export Corp, Buenaventura

METHANOL — 638 dms, Waterman S S Corp, Antwerp—638 dms, Hercules Powder Co, Rotterdam

MICA—262 cs, Vilco, Inc, Buenos Aires—97 cs, Sussex Trading Corp, Rio de Janeiro—39 cs, Ford Radio & Mica Co, Rio de Janeiro—85 cs, Gillespie-Rogers-Pyatt Co, Rio de Janeiro—90 cs, Colonial Trust Co, Rio de Janeiro

MONTAN WAX—633 cs, Amtorg Trading Corp, Odessa

MULLEIN LEAVES—44 bls, R J Prentiss & Co, Alger—43 bls, Alger

MYROBALANS—1,600 bgs, Vermilye Corp, Bombay

OLIBANUM GUM—130 cs, Aden

OLIVE OIL—300 cs, Berolia Import Co, Leghorn

PAPRIKA—400 bgs, M J Golombeck, Lisbon—100 bgs, Wm M Allison & Co, Lisbon—91 bgs, Guaranty Trust Co, Lisbon

PEPPER, BLACK—720 bgs, W R Grace & Co, Singapore—8 bgs, East Asiatic Co, Singapore—504 bgs, J Henry Schroeder Banking Corp, Singapore—252 bgs, Singapore—656 bgs, Volkart Bros, Antwerp—White, 28 bgs, East Asiatic Co, Singapore

PERILLO GUM—31 cs, 65 bgs, Chicle Development Co, Barranquilla

PETROLEUM, CRUDE—105,633 bbls, Gulf Oil Corp, Las Piedras—122,715 bbls, Secony Vacuum Oil Co, Puerto La Cruz—108,987 bbls, Standard Oil Co, N J, Cartagena—127,426 bbls, Standard Oil Co, N J, Puerto La Cruz—107,627 bbls, California Oil Co, Las Piedras—105,112 bbls, Cities Service Oil Co, Las Piedras—115,766 bbls, Imperial Oil, Ltd, Puerto La Cruz

POPPYSEED—100 bgs, Louis Furth, Rotterdam

POTASH PERCHLORATE — 136 bbls, Chilean Nitrate Sales Corp, Antofagasta

PUMICE, LUMP—200 bgs, Whittaker, Clark & Daniels, Canneta—Powdered, 9,068 bgs, J H Rhodes & Co, Canneta—829 bgs, C B Chrystal & Co, Canneta

QUEBRACHO EXTRACT—21,538 bgs, C M Loeb Rhoades & Co, Buenos Aires—3,330 bgs, River Plate Import & Export Corp, Buenos Aires

RADIUM ELEMENT—1 cs, Radium Chemical Co, Rotterdam

RED SQUILLS—1,051 bgs, Brown Bros-Harriman Co, Alger

RHUBARB—54 cs, National City Bank, Shanghai

ROSEMARY OIL—12 dms, Alicante

ROSEWOOD OIL—10 dms, Biddle, Sawyer Corp, Rio de Janeiro

SAFFRON—2 cs, Richard D Heins, Oporto—1 cs, Manufacturers Trust Co, Alicante

SESAME SEED—123 bgs, W R Grace & Co, Cristobal—3,330 bgs, Inco Trading Co, Cristobal

SHARK LIVERS—1 bbl, First International Corp, Lisbon—13 dms, Consumers Importing Co, Cristobal

SIENNA EARTH—350 bgs, C B Chrystal & Co, Larnaca—43 cks, Reichard-Coulston, Inc, Leghorn

SILVER SULPHIDES—114 bgs, Watson, Geach & Co, Antofagasta

SOAP BARK—377 bls, R J Prentiss & Co, San Antonia

SODA CARBONATE MONOHYDRATE—400 bgs, Merck & Co, Liverpool

SODA SULPHIDE—140 dms, Mercantile Metal & Ore Corp, Antofagasta

SORBORUM BERRIES—100 bgs, S B Penick & Co, Gdynia

STORAX—57 cs, 1 ck, S B Penick & Co, Izmir

SUMAC, GROUND—150 bgs, River Plate Import & Export Corp, Palermo

TALC—572 bgs, Charles Mathieu, Inc, Genoa

TANKAGE, LIVER—1,816 bgs, Wilson & Co, Buenos Aires

TAPIOCA FLOUR—1,200 bgs, McLarsen, Ltd, Hamilton, Rio de Janeiro—1,000 bgs, Stein, Hall & Co, Rio de Janeiro

THALLIUM SULPHATE — 3 cs, International Selling Corp, Havre

THYROID POWDER—6 cs, Van Gelder Fanto Corp, Buenos Aires

UMBER EARTH—117 bgs, Chase National Bank, Larnaca—70 bgs, T H Deutz, Larnaca—35 bgs, Fezandie & Sperrle, Larnaca—1,518 bgs, C K Williams & Co, Larnaca

UVA URSI LEAVES—417 bgs, C L Huisking & Co, Alicante

VALONIA—10,018 bgs, Barkey Importing Co, Odlunluk—8,230 bgs, Gibraltar

VANILLA BEANS—22 cs, Marine Midland Trust Co, Majunga—24 cs, R F Downing & Co, Tamatave—27 cs, W J Bush & Co, Tamatave—74 cs, Otto Gerdau Co, Tamatave 75 cs, Hunzikers & Co, Chicago, Tamatave—135 cs, J Manheimer, Tamatave—133 cs, Thurston & Braidich, Tamatave—72 cs, F Huber & Co, Tamatave—94 cs, Dodge & Olcott Co, Tamatave—93 cs, Geo Lueders & Co, Tamatave—24 cs, Jewett Sherman Co, Milwaukee, Tamatave—4 cs, Stern, Morgenthau Co, Tamatave—194 cs, Norda Essential Oil & Chemical Co, Tamatave—47 cs, Tamatave

VETIVER OIL—4 dms, Tradesmen National Bank, Pointe Des Galets—2 dms, Dodge & Olcott Co, Pointe Des Galets—2 dms, Ungerer & Co, Pointe Des Galets

WATTLE BARK—2,780 bls, Vermilye Corp, Durban—1,120 bls, Durban

WOLFRAM ORE—359 bgs, Furness, Withy & Co, Arica—300 bgs, Mercantile Metal & Ore Corp, Oporto—727 bgs, W R Grace & Co, Mollendo — 36 kgs, National City Bank, Buenos Aires

WOOL GREASE—30 bgs, Innis, Speiden & Co, Liverpool—10 dms, Pfaltz & Bauer, Liverpool

YLANG YLANG OIL—2 cks, 2 dms, Geo Uhe Co, Marseilles—7 cks, A Chiris & Co, Tamatave—12 cks, Norda Essential Oil & Chemical Co, Tamatave—1 ck, Felton Chemical Co, Tamatave

Baltimore

MANGANESE ORE—2,000 tons, Morugao

QUEBRACHO EXTRACT—4,995 bgs, River Plate Import & Export Corp, Buenos Aires—4,147 bgs, Buenos Aires

SIENNA EARTH—58 cks, Mineral Pigment Co, Leghorn

Boston

BONES—2,772 bgs, Wilson & Co, Buenos Aires

GLUESTOCK—100 rolls, H Remis & Co,

Barranquilla—175 rolls, John Corvers & Co, Barranquilla.
OSSEIN—828 bgs, Atlantic Gelatine Co, Antwerp

Norfolk

BONE MEAL—500 bgs, Woodward & Dickerson, Rotterdam
HOOF MEAL—1,026 bgs, Anewalt, Schmitt, Inc, Buenos Aires
HORN MEAL—104 bgs, Anewalt, Schmitt, Inc, Buenos Aires
QUEBRACHO EXTRACT — 12,403 bgs, Buenos Aires

Philadelphia

BONES—600 bgs, American Agricultural & Chemical Co, Rio de Janeiro
CHROME ORE—3,000 tons, E J Lavino & Co, Beira
MANGANESE ORE—8,992,400 lbs, E J Lavino & Co, Durban
PEATMOSS—300 bgs, Half Moon Mfg & Trading Co, Rotterdam
VANILLA BEANS—72 cs, Zink & Triest, Tamatave—160 cs, M Cortizas & Co, Tamatave—92 cs, Camax Co, Tamatave

San Francisco

ARGOLS—296 bgs, Bank of California National Assn, Oporto

California Research Corp. Forms New Division

California Research Corporation, subsidiary of Standard Oil Company of California, is forming a new division to coordinate and expand the company's oil field research activities. It will be headed by E. G. Gaylord, who has been elected a vice-president and director of the research company.

Activities of the new branch will embrace laboratory and research services for the various oil field operations, including geological, geophysical, drilling, producing and surface processing work. Formation of this division, it is planned, will lead to increased knowledge of the characteristics of oil fields and thereby improve prospects for increased recovery from known fields and the discovery of new fields.

Laboratories for this work will be established at La Habra and El Segundo, Calif. Construction of new buildings has been gotten under way at both locations.

Gulf Names Swensrud Executive Vice-President

Gulf Oil Corporation, Pittsburgh, has elected Sidney A. Swensrud executive vice-president as well as a director of the company. Mr. Swensrud was formerly executive vice-president of Standard Oil Company of Ohio.

Petroleum Research Reports Available

OPD Washington Bureau

More than 250 Bureau of Mines publications and special articles dealing with the chemistry and refining of petroleum and oil shale are enumerated in a selected list of publications now available for distribution to the petroleum industry and to the general public, Dr. R. R. Sayers, Director of the Bureau, announced last week.

Included in the bibliography are titles of previously published reports on bureau petroleum and oil-shale research during the past thirty-five years. Although some of the complete publications now are out of print, these reports may be consulted at depository libraries receiving bureau publications. A list of these depository libraries also is contained in the bibliography.

In addition to pioneer bureau research, the selected list contains the titles of reports based on cooperative work with the State of Oklahoma at the petroleum experiment station at Bartlesville, Okla., and with the University of Wyoming at the petroleum and oil-shale experiment station at Laramie, Wyo.

A copy of the bibliography, titled, "A Selected List of Bureau of Mines Publications Dealing With the Chemistry and Refining of Petroleum and Oil Shale," may be obtained by writing to the Bureau of Mines, Department of the Interior, Washington 25, D. C.

Fohs Aids Palestine Research Institute

F. Julius Fohs, president of Fohs Oil Company, Houston, Texas, has donated $50,000 to the Hebrew Institute of Technology, Haifa, Palestine, for industrial research. The gift has been made in the form of industrial fellowships.

Trade Briefs

Oil-Heat Institute of America has moved its New York office to larger quarters at 6 East Thirty-ninth street.

Soviet geologists are said to have discovered oil reserves in the Ural Mountains about 1,000 miles east of Moscow.

Lion Oil Company, Eldorado, Ark., has completed its seventh producing well in the Coats Pool, Pratt County, Kansas, at a total depth of 4,369 feet.

Chinese Petroleum Company has requested bids from United States oil companies for the delivery of 100,000 tons of crude oil to its refinery at Hulutao.

East Asiatic Company, Inc., has moved its New York offices to 21 West street, New York 6. The telephone and teletype remain unchanged.

Panhandle Producing & Refining Company will increase its authorized capital stock from 1,500,000 shares to 2,000,000 shares, stockholders decided at a recent meeting.

Paul G. Blazer, chairman of the board of Ashland Oil Refining Company, Ashland, Ky., has been selected as temporary president of the proposed Kentucky Traffic Safety Association.

Socony-Vacuum Oil Company, New York, is producing a new line of cutting oils, designated as the "Cuprol" line, which is said to prevent discoloration during the machining of high-conductivity, oxygen-free cooper for radar and electrical equipment.

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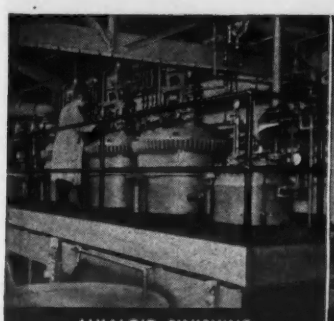

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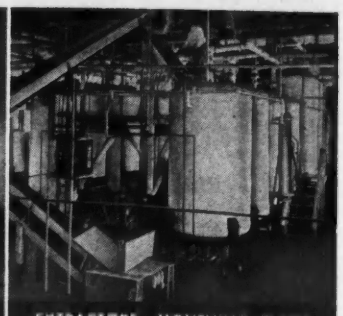

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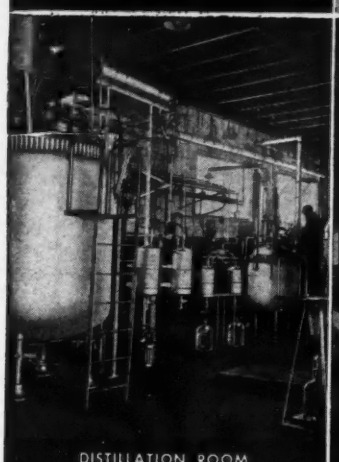
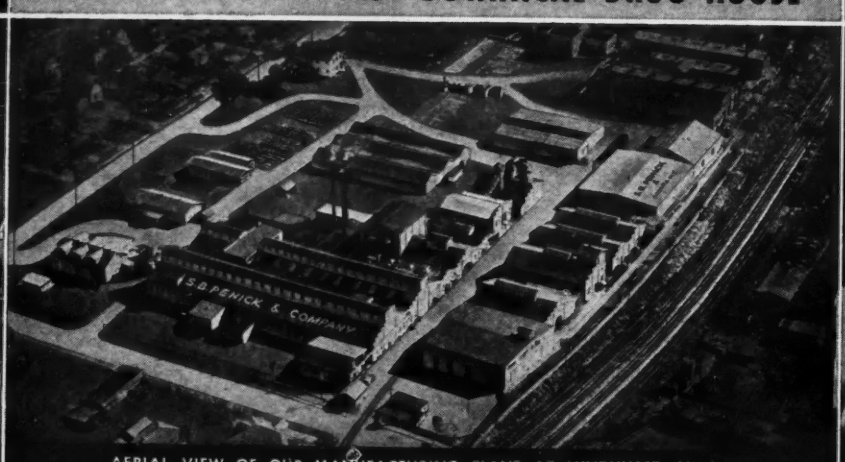
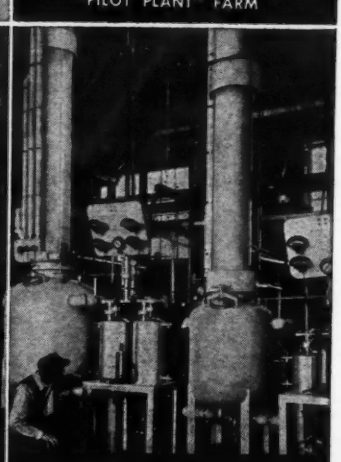


DISTILLATION ROOM



AERIAL VIEW OF OUR MANUFACTURING PLANT AT LYNDHURST, N. J.



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Botanical Drugs, Spices, Gums

No end to generally declining prices was in sight last week in the market for botanicals. The price-bottom of the market seemed spongy and prone to yield further in keeping with the absence of demand in excess of immediate necessities. Reserve appeared to be the policy of most buyers, a policy that has removed the major part of buying pressure from the market, a condition that in turn has caused price weakness in primary markets where stocks have an opportunity to backup in the go-downs of shippers.

Price declines in the group of condimental and flavoring botanicals have gone too far, in the opinion of those who merchandise such entities. Others indicate that is a matter of opinion and offer the view that resistance to bidding on the part of United States importers is beginning to show dimly in the markets of primary supply. None can dispute the fact that reductions have been going on for far more weeks than the norm of such movements. That stocks have backed up is evidenced by the increase in quantities being offered for export from foreign points.

In the medicinal botanical group, it was said that there was less reason for worry than exists in the flavoring-condimental materials. Inactivity on the part of buyers seemed the main reason for the continued downward revision of some prices. As to primary market replacement costs, no substantial reductions have been made either at home or abroad. That this is the new crop season, that crops are now growing, that they are likely to show an increase when collection is ended, are facts countered in some measure by the reports that labor in many lands is being channeled into the production of agricultural foodstuffs, that in other countries labor still finds industrial employment more remunerative than plant collection, and that the carryovers from the 1946 are usually on the short side. No dealer at this time seems disposed to sell the medicinal botanical market short.

Market Trends

Prices Advanced

Drugs

Gum, arabic, ¼c. per lb.

Other Articles

Caraway seed, Dutch, ¼c., per lb.
Pepper, black, spot, 3c. per lb.
futures, 3½c. per lb.

Prices Reduced

Drugs

Aloe, Curacao, 4c. per lb.
Cape, 2c. per lb.
Socotrine, 1c. per lb.
Angelica root, domestic, 5c. per lb.
Burdock root, 1c. per lb.
Calendula flowers, 5c. per lb.
Cocillana bark, 1c. per lb.
Fringetree bark, 2c. per lb.
Gum, benzoin, Sumatra, 15c. per lb.
locust bean, 5c. per lb.
mastic, 5c. per lb.
sandarac, 10c. per lb.
tragacanth, ribbon, 25c. per lb.
Helonias root, 5c. per lb.
Jaborandi leaves, 1c. per lb.
Prince's pine, 2c. per lb.
Rhubarb root, 5c. per lb.
Saffron, Spanish, wooden boxes, $2 per 15 ozs.
Senega root, 5c. per lb.
Wahoo bark, root, 5c. per lb.

Other Articles

Allspice, Mexican, 2c. per lb.
Anise, Mexican, 3c. per lb.
Syrian, ½c. per lb.
Cardamom, bleached, bold, 5c. per lb.
medium, 5c. per lb.
decorticated, India, 2c. per lb.
green, Alleppey, 5c. per lb.
Cassia, China, buds, ½c. per lb.
rolls, select, ½c. per lb.
broken, select, ½c. per lb.
Cinnamon, Ceylon, No. 2, 2c. per lb.
Dill seed, decorticated, 1c. per lb.
Fennel seed, Argentine, 1c. per lb.
Mustard seed, Montana, brown, ½c. per lb.
Montana, oriental, 1c. per lb.
Nutmegs, West Indian, 1c. per lb.
East Indian, 2c. per lb.
Paprika, Chilean, 1c. per lb.
Portuguese, 1c. per lb.
Pepper, white, 1c. per lb.
Sage, Dalmatian, spot, 5c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
281.2	282.3	284.3	289.3

(For Current Prices see Page 9)

Imports Detained by FDA

Week Ended May 29

New York

Caraway seed, 67 bags: filthy.
Cassia, 300 bales: insect infested.
Creosote, 2 cases: no directions for use; no warning statement; short weight.
Gum tragacanth, 74 bags: sand and other extraneous matter.
Henbane, 58 packages: not official variety.
Licorice root, 733 bags: moldy.
Mace, 41 cases: dead insects.
Nutmegs, 400 bags: moldy and wormy.
Pepper, black, 4,055 bags: moldy and contains insect bored berries; live and dead insects; excess siftings and pickings.
Sesame oil, 20 drums: decomposed.
Teaseed oil, 335 drums: inedible unrefined oil.

Balsams

Copaiba—Demand was not very active, consumers being mainly disposed to cover immediate requirements only. Prices remained steady.

Fir—Stocks of both Canadian and Oregon balsam were conservative in size but so, also, was demand last week. The result was firm but unchanged prices.

Tolu—Replacement costs showed a deal of firmness and spot quotations took their color from that in the primary market. Demand was moderate. Stocks were rather limited.

Barks

Cocillana—Quotations were slightly lower at 49c. to 50c. per pound. Stocks were reported to be growing and the accumulation becomes important as the time is approaching when some consumers cover their Fall requirements.

Fringetree—Some selling at 73c. per pound was reported but the quantities in request were relatively small and usually of jobbing description. Stocks were conservative. Some sellers showed reserve in the matter of offerings.

Wahoo—Root bark was lower at $1.25 to $1.30 per pound, reflecting some improvement in supply as collection gets underway, in some instances at slightly more attractive cost.

Beans

Vanilla—Since the last report, 1,504 cases of Bourbon beans reached here from Madagascar. It was the largest shipment to arrive for some time past and seemed to indicate that despite the upset and unsettled political situation in the primary market, dealers at the source have been able to accumulate a substantial amount of beans for the United States.

Reports on spot last week indicated that fairly substantial quantities of the latest landing had been sold into consumption prior to arrival. Not so much so, however, as some dealers believed would have been the part of wisdom on the part of buyers who ought to be looking well ahead and seeing to it that they had ample quantities of beans in store. Prices failed to weaken under the arrival and the market ended the week in very steady position.

Berries

Juniper—The market lacked more than jobbing activity and was subject to considerable competition when firm business developed. Open quotations lacked change but they could be shaded on occasions.

Hawthorn—An arrival of 8 cases from Oporto, Portugal, was noted last week. The English berries are usually supplied on this market.

Flowers

Calendula—A few odd lots were sold during the past week and the business was done at the lower level of $1 to $1.05 per pound.

Chamomile—Some importers think that substantial quantities will become available when the European crop is ready for shipment. Meanwhile, the spot market continued in steady price position throughout the past week even though demand was generally on the quiet side.

Linden—The spot market tended toward more competitive position but importers have yet to place orders at lower prices abroad and hence when quoting the market, retain unchanged prices for the time being.

Saffron—Spanish flowers packed in

For Late Market Developments, See Page 4

OPD—6-9-1947 67

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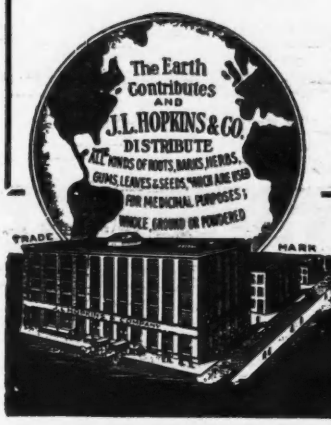
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COCILLANA BARK
COLOCYNTH PULP
COLOMBO ROOT
CORIANDER OIL AND SEED
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DILL SEED, Indian
ERGOT OF RYE
FENNEL SEED, Indian
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LAVENDER FLOWERS
LINDEN FLOWERS, with Leaves
MAHUANG, Chinese
MARJORAM LEAVES
OAK MOSS
ORANGE OIL, Sweet
ORRIS ROOT
PEPPERMINT OIL
PIMENTO, Jamaica
POPPY SEED, Indian
PSYLLIUM SEED AND HUSKS
QUINCE SEED
RHUBARB ROOT
ROSEMARY LEAVES
ROSEMARY OIL
SAGE LEAVES
SARSAPARILLA ROOT
SAVORY
SENNA LEAVES AND PODS
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STROPHANTHUS SEED
THYME LEAVES AND OIL
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wood boxes holding 15 ounces were offered last week at the lower price of $33 to $34 per box and single packages could be obtained at the inside figure. Flowers in the regular tin box packing, one pound to the tin, held at $37 to $38.

Gums

Arabic—Sorts were quoted at 14c. to 14½c. per pound in regular channels of trade but it was also said that distressed lots recently were in the market at 13¾c. Based on present import cost, sales at 14c. yield the narrowest kind of profit to sellers.

Benzoin—Sumatra gum weakened again and prices declined to 45c. to 50c. per pound.

Camphor—The Reconstruction Finance Corporation called for bids on about 1,200 cases of slabs, tablets and powdered Japanese material. Turpentine has turned firmer of late and although prices have advanced, no reflection has yet come in the prices prevailing for synthetic camphor.

Locust Bean — Reports suggested that the market was slow and that prices have developed a weakened position on the basis of 45c. per pound, lowest. Arrivals last week totaled 50 bags from Genoa, Italy.

Mastic—More competition has developed and open quotations at $2.45 per pound were said to be subject to occasional shading. The range was to $2.65 as to seller and quantity.

Sandarac—The market was lower at 85c. per pound under the influence of slack demand that has encouraged a more competitive approach to sales.

Tragacanth—Substantial stocks have led to some shading of prices and ribbon tragacanth was said to be available as low as $3.75 per pound in some directions. The No. 2 was around $3 and the No. 3, about $2 per pound.

Herbs and Leaves

Jaborandi—The market was more competitive and sales at 24c. to 25c. per pound were reported, though they were not numerous at any price. Consumers' requirements were conservative and market conditions favored potential buyers throughout the period.

Mullein—The market was enlivened somewhat by the arrival of 87 bales of this leaf, coming from Algiers and providing a supply adequate to meet the currently light request for the material.

Sage—Dalmation sage was lower at 24c. to 25c. per pound last week. No change was made in prices on the numerous other varieties of sage now on spot.

Senna—Demand was better than it had been but it still was not overly lively last week. The market tended to be slightly easier on reports of a change in the situation at the source.

Miscellaneous

Cantharides—The market was still competitive but possibly a shade less so than it had been of late. At least, prices retained a steady position even when competition was a part of transactions in the Chinese material.

Corn Silk—The article was somewhat more readily obtained on spot, some arrivals having been released for consumption as against the usual experience of importers who have been plagued by constant detentions of arriving merchandise.

Dragons Blood—Reports of general importations of botanical merchandise have not included any arrivals of the thin reeds of dragon's blood. Drops seemed to be in very good supply, as against the rather inactive demand.

Papain—The market was less aggressively active and in some respects conditions seemed to turn slightly more favorable for buyers. At least, the advance in prices has stopped and they have become somewhat softer of late.

Roots

Aletris—Collections have not gone far enough entirely to develop the probable trend of prices during the active season of consumption. However, the market appeared to be slightly softer last week.

Angelica—Some domestic root was reported sold at $1.10 to $1.15 per pound, depending on quantity. Foreign root remained generally steady to firm.

Burdock—Competition was reported locally and it was sufficient to ease spot prices to the basis of 55c. to 56c.

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Gentian

23

When he ruled Illyria, a kingdom on the eastern shore of the Adriatic Sea, Gentius could not forsee that in the world of 1947, his name would be a daily word in botanical markets.

From Gentius, botanists derived the name Gentian, mentioned as a medicine by Dioscorides, Greek naturalist of the First Century, and by the Roman naturalist Pliny, B.C. 23-79, author of *Historia Naturalis*.

Valued today as a tonic, in 1865 Gentian was a popular tobacco substitute, a root combination of 3 parts Licorice and 1 part Gentian that sold at two ounces for 25 cents as a chewing tobacco substitute.

Our Almanach

June 9, 1870—Charles Dickens, novelist, died.

June 10, 1752—Franklin drew electricity via his kite.

June 14, 1777—Congress adopted Stars and Stripes flag.

June 14, 1789—Bastile stormed in Paris.

WAREHOUSE AND MILLS

JERSEY CITY **NEW JERSEY**

CRUDE BOTANICAL DRUGS
TRADE *From Forty Nations* MARK

per pound. Replacement costs were still on the high side, however, and no substantial extention of the decline was expected.

Dandelion—Russian root is arriving with greater frequency. The latest importation was 10 bales that originated at Odessa on the Black Sea.

Gentian—Demand was light and usually on a hand-to-mouth basis last week. Supplies were ample and market conditions tended to emphasize the presence of substantial competition in local circles. Open quotations lacked change, however.

Helonias — Replacement cost was said to warrant a spot price of about $2.30 per pound for goods actually available. Collections were said to be making a fair showing but much improvement and increase must take place to return a normal supply to the market.

Rhubarb — Better than fair stocks and exceptionally restrained demand have combined to bring prices down still further. The market became 85c. to 90c. per pound for whole and 95c. to $1 for powder. Arrivals from Shanghai, China, totaled 54 cases.

Senega—The market was lower at $2.10 to $2.20 per pound and it was intimated that in all probability the decline is about at its end. The Spring recession has been substantial but from now on some dealers expect market undertones to strengthen.

Squill—Red squill from Algiers arrived in the amount of 1,051 bags during the past week.

Seeds

Anise—Mexico resumed firm offerings in future position and the price was 29c. to 30c. per pound. Syrian seed was reduced to 28½c. to 29c. and stocks increased by the arrival of 150 bags from Beirut.

Caraway — Dutch seed advanced fractionally to 25¾c. to 26¼c. per pound.

Cardamom — Prices resumed their downward trend. Bold bleached seed became $1.45 to $1.50 per pound; medium bold, $1.35 to $1.40; decorticated, and Guatamalan, $1.18 to $1.20; green, Allepey, $1 to $1.05.

Dill—Decorticated seed was cheaper at 11c. to 11½c. per pound. Dewhiskered lacked quotable change.

Fennel—Argentine seed continued to decline and spot offerings at 7½c. to 8c. per pound went begging most of last week.

Mustard — Montana brown was shaded to 16c. to 16½c. per pound and Montana oriental was down to 8c. to 8½c.

Spices

Allspice—The market signlaned a return of activity by dropping to 14c. to 14½c. per pound.

Cassia—The sole changes in prices came in China buds, that declined to 21½c. to 22c. per pound; select rolls that were down to 9c. to 9½c., and broken extra select rolls that dropped to 7c. to 7½c.

Cinnamon—Ceylon No. 2 was reduced rather sharply to the basis of 47c. to 48c. per pound.

Nutmegs—Prices declined further. West India, 65c. to 66c. per pound for spots and 63c. to 64c. for futures; East India, futures, 60c. to 61c.

Pepper—Black pepper reacted upward and sold during the past week as high as 31c. to 32c. per pound on spot. Futures were up to 31c. to 32c. White pepper was shaded to 43c. to 44c. Red peppers held unchanged.

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Essential Oils, Other Aromatics

Little gain was reported last week in the total volume of trade in the essential oils market. The flavor industry continued to place large orders, and a slight flurry of activity was noted among insecticide manufacturers. Soap accounts were still below par, and orders from perfumery manufacturers were inclined to be very small.

The outstanding feature of the week, which witnessed a continuation of the slow decline which has been the pattern of the past few months, was the sharp break in lemongrass, which had been often predicted in trade circles and now became a reality. Most other oils were in general firm, their small declines contingent upon the temporary relation between supply and demand rather than upon a permanent policy of price-cutting. It was pointed out that the majority of oils were being offered at the lowest possible price, in view of present conditions; and that appreciable decreases could be expected only in a very few oils currently in thin supply. Thus it was apparent that the prospects for future business depended upon the consumer, as suppliers had generally lowered their prices as far as feasible.

Imports continued to arrive in large quantity; fourteen different oils were received last week from abroad, among them fennel and shiu oil, the former of which had been in rather short supply, and the latter virtually unobtainable. Supply in most oils was far ahead of demand, as the list of oils critically short shrank persistently.

Market Trends

Prices Advanced

Benzophenone, 5c. per lb.
Benzyl acetate, 5c. per lb.
alcohol, 3c. per lb.
Orange oil, West Indian, 50c. per lb.

Prices Reduced

Benzyl formate, 25c. per lb.
propionate, 20c. per lb.
salicylate, 5c. per lb.
Caraway oil, 10c. per lb.
Cedarwood oil, 10c. per lb.
Celeryseed oil, $1.50 per lb.
Coriander oil, $2.50 per lb.
Fennel oil, 80c. per lb.
Grapefruit oil, Florida, 5c. per lb.
Gualacwood oil, 10c. per lb.
Lavandin oil, 15c. per lb.
Lemon oil, terpeneless, $10 per lb.
Lemongrass oil, 35c. per lb.
Orange oil, sweet, dist., 45c. per lb.
USP Brazilian, 45c. per lb.
Florida, 15c. per lb.
Sesquiterpeneless, $20 per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
196.2	197.1	203.6	205.6

(For Current Prices see Page 9)

Essential Oils

Caraway—A slight decrease on the inside was noted, as the price slipped from $5.60 to $5.50 per pound. The outside held firm at $6.50. Despite the fact that supplies were still objectively very short, little hardship resulted, as demand also was at a very low level.

Cassia—There were indications last week of a general firming tendency in this oil, as many suppliers advanced their prices toward the outside of the previously established range. The range itself stood firm for the time being at least, as some few dealers could still offer stocks at $3.10 per pound, and no quotations could be heard above the $3.75 maximum previously in effect. Although stocks actually in the country and in shipment from China were still plentiful, there were indications that periodic temporary shortages might result from the currently strong demand, unless the tempo of importation could be stepped up.

Cedarwood—The poor demand for this oil last week sponsored a price decrease of eight to ten cents in some quarters of the market. The oil in drums, formerly offered at a low of 90c., dropped to 80c.; while the product in cans dropped to 85c. from a previous low of 93c. Stocks were piling up to some extent, as the channels of supply lay open, but bids for lots were few. Isolated sections of the market reported a continuation of fairly active demand, but the general reports on present business and expectations for the immediate future were pessimistic.

Celery—For the second successive week an appreciable cut was announced in the price of the seed oil, as inroads were made into even the small demand apparent in the past few weeks for the oil. It was generally reported that the oil was not selling at all, despite the fact that fairly large stocks were available for the first time in some months. Quotations last week ranged from $16.50 to $20, a drop of $1.50 from the previous low.

Coriander—This oil, which three weeks ago had dropped $3 per pound, underwent a further decline of $2.50. Quotations ranged from $17 to $22 per pound. As was the case with almost all oils obtained principally from Central and Eastern Europe, supplies were extremely thin, but it had been noted that the uncertainty of the possibility of acquiring stocks in the immediate future had inspired a widespread apathy in the market, and all but killed the normal demand for such oils—and coriander was no exception.

Eucalyptus — While inside prices stood firm last week, stiffening was noted in the outside figures. The 70-80 percent oil was offered at from 95c. to $1.30 per pound, and the 80-90 percent oil at $1.05 to $1.40 per pound. The rather large differential was based on the fact that, although supplies in this country were reasonably large, they were concentrated in the hands of several of the largest concerns; many supply houses had limited stocks on hand, and were therefore quoting higher figures. Promise was held out that this condition would not last long, as a steadily mounting tide of imports from Australia joined forces with the West Coast product to swell available supplies.

Fennel—The price of this oil, which had risen three weeks ago in the face of fairly good demand and limited supply, dropped last week as the demand showed marked signs of weakening. What stocks were on hand were being offered at from $3.75 to $4.55 per pound. Three drums arrived during the week from Barcelona.

Geranium—No changes were announced in the price asked for the Bourbon oil last week, but such changes in the immediate future were not unexpected, as larger quantities of the oil reached these shores. Last week's arrivals were five casks from Marseilles and 28 drums directly from Reunion. Demand continued moderately good. Prices asked for various types of oil were as follows: Algerian, which was in poor supply, $19 to $21 per pound; Bourbon, in fair supply, $13.50 to $17.50 per pound; palmarosa, in rather short supply, $7.25 to $9 per pound. The Russian oil had been absent from the market for some time.

Grapefruit—A slight decrease was noted in the price for the Florida oil, quotations for which ran from $2.25 to $2.30 per pound. The Californian oil stood firm at from $1.78 to $2.60 per pound. Demand for both types of oil was reported to be fair and consistent, and stocks, already adequate, were being bolstered by prompter shipment from the growing centers.

Guaiacwood—This oil, which, along with petitgrain, had been reacting violently to Paraguayan establishment of floor prices and interpretations of that action here, slipped again last week. Prices ranged from $2.50 to $3.80 per pound, a decline of forty cents. The widely divergent inside and outside prices mirrored the predictions in various quarters as to whether the floor prices could hold in the face of limited demand.

Hemlock—Some quarters of the market reported last week that there has been of late a growing number of inquiries for this oil. The longstanding scarcity of supplies had been a matter of little concern to dealers previously, as there was very limited call for the oil; but, in view of the apparent revival of interest, efforts were being intensified to acquire stocks. Some quantities were avail-

For Late Market Developments, See Page 4

able last week at an average price of $2.65 per pound.

Ho—For the second time in a month, a rather large shipment arrived from Shanghai—this time 28 drums. The oil was not being offered for sale as such, but was rather being used for the manufacture of linalool and linalyl acetate—a matter of some interest, in view of its possible repercussions on the position of bois de rose, petitgrain, and lignaloe wood. Reports indicated that ho oil was available in the Orient in very large quantity; its arrival here was conditioned more by shipping space than by actual demand in this country.

Lavandin—A further decline in this oil established a new range of $2.80 to $3.75 per pound—a drop of 15c. Stocks were reported to be growing rapidly, and demand was good, though not at the level normal for this oil.

Lemongrass—Amid all the declines in the price of this oil over the past several months, it had been strongly hinted that a severe decrease would occur in the beginning of the summer. This actually took place last week, as a 35c. drop was registered. Quotations ranged from $1.40 to $2.05 per pound. It was hoped that this newest low price would have a stimulating effect upon the disappointingly small demand, for there remained very little room for further decline. Stocks were very large, and were growing steadily as imports poured in from all growing centers.

Orange—Price reductions were announced for the majority of types of this oil, the one notable exception being the Messina product. Although the quality of very recent imports from Messina showed a marked improvement over that of earlier shipments, many dealers were still chary of committing themselves quite yet by buying large stocks. In view of this reluctance, only limited quantities of the Sicilian oil were on the market, and they were quoted at from $4.50 to $4.75 per pound. West Indian oil showed a slight increase, as quotations ranged from $2.75 to $3.75 per pound. All other types, however, declined in price—a decline attributable not to a lessening of demand, for that continued strong, but to the eradication of the shipping slowdown which had resulted in periodical temporary shortages. Current ranges or the various types of oil were as follows:—Sweet distilled, 50c. to $1.25 per pound; Brazilian, $1.15 to $1.70 per pound; Californian, $1.75 to $2.10 per pound; Florida, $1.30 to $1.75 per pound; Messina, $4.50 to $4.75 per pound; West Indian, $2.75 to $3.75 per pound; sesquiterpeneless, $80 to $135 per pound.

Peppermint—Gloomy predictions of some weeks ago emanating from the Midwest that unseasonable rains might delay and limit plantings to the point where the oil would be in even scarcer supply in the autumn proved unfounded, as reports from the area indicated that a slightly greater acreage was under cultivation. Prices being bandied about for futures indicated a slight decline some months in the future—but not enough of a decline to reestablish the oil in popular favor. Meanwhile, interest in the oil continued slight, as former users avoided the oil because of its price, and tried to go along with substitutes. The natural oil was quoted at from $8 to $8.70 per pound, with most suppliers leaning toward the higher figure, and the redistilled at from $8.40 to $9.60, with most dealers quoting approximately $9 per pound.

Thyme—A slight increase of interest in the various grades of this oil was reported last week. Stocks were adequate to the limited demand in force over the past few months, but, in view of a possible upswing of buying, the present economic discussions between this country and Spain were being followed with some interest, because of the possible repercussions on this among other Spanish oils. Red was being offered last week at from $2.50 to $3.25 per pound; white, at from $2.95 to $3.60 per pound, and white, technical grade, at a uniform 93c. per pound.

Vetiver—The first importation in some time was noted last week, as eight drums arrived from the island of Reunion. Stocks of the Bourbon oil, which were being offered at from $30 to $38 per pound, were actually thin, although adequate to the slow demand. The Haitian oil, at from $30 to $33 per pound, could be found in somewhat greater quantity in some quarters of the market, though call for this oil was even more limited than that for Bourbon.

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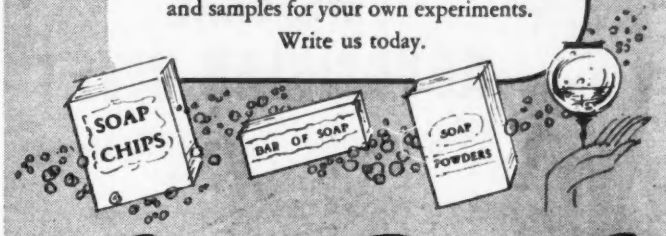

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tations in some months arrived last week—two casks and two drums from Marseilles, and twenty casks directly from Madagascar. Although supplies in this country were rather thin, they were adequate to take care of the poor demand; and it was conjectured that the poorness of the demand was in reaction to the current prices asked for the oil, and not a real indication of lack of interest. It was hoped that, if the arrivals of last week could be construed as a sign that supply channels were about to open up, the prices asked for the various grades of oil might fall to the point where interest would be greatly stimulated. Quotations current last week were as follows:—Bourbon oil, $15.50 to $25 per pound; first, $12.50 to $14.50 per pound; second, $8 to $9.50 per pound; third, $5 to $7.50 per pound.

Aromatic Chemicals

Acetophenone—A tendency to advance the price in the direction of the maximum $1.75 per pound was noted in some quarters, although one of the largest producers still offered stocks at as low as $1.50 per pound. Domestic demand was rather slow, but orders for export were reported as being unusually heavy. Large quantities of the product were available.

Benzophenone—A slight increase on the inside moved the range to $1.15 to $1.60 per pound. Demand for the product was reported as being consistent enough, though at a rather low level; available supplies were more than adequate to meet this demand.

Benzyl Compounds — The acetate was reported, for the first time in some months, as being in fairly free supply. Large orders were still difficult to fill, and temporary delays were met with in some quarters; but, in general, the product was reasonably available at slightly stiffened prices of 60c. to 70c. per pound. The alcohol was still tight, though not nearly so much so as it was a few weeks ago; contract customers were generally being supplied, though not so promptly or in such quantity as they might like. Prices here also were firmer, the range going from 68c. to 80c. per pound. Benzyl formate, which suffered a 15c. decline two weeks ago, dropped 20c. further in the face of limited demand, to establish a range of $1.70 to $2.50 per pound. Salicylate dropped a further 5c. per pound after its 10c. drop of two weeks ago. Its range stood at $1.75 to $2.10 per pound. Benzyl propionate, formerly firm, was available in much greater quantity; limited demand sponsored a 20c. decrease, which established a new range of $1.65 to $2 per pound.

Musk—The shortage of ambrette showed signs of easing slightly, but not as yet to the extent of establishing it in free supply. Lots were offered at from $8 to $14.25 per pound. Ketone was in fairly free supply at $4.60 to $4.95 per pound. Xylol, for which a slightly improved demand was reported, was available in quantity at $1.60 to $2 per pound, with a technical grade being offered at from $1.10 to $1.20 per pound.

Hamilton Joins General Mills

The chemical division of General Mills, Inc., Minneapolis, has named Hugh A. Hamilton technical director of the company's new "Chemoil" plant being built at Kankakee, Ill.

For the past several years Mr. Hamilton supervised the analytical, experimental and process engineering laboratories in the butadiene division of Cities Service Refining Corporation at Lake Charles, La.

Florence Wall Leaves Evans Research

Florence E. Wall, cosmetics chemist and author of books on beauty culture, has left Evans Research and Development Corporation, New York, to return to consulting work. She plans to write on developments in research in the field of cosmetology. Miss Wall's new address is 155 East Forty-ninth street, New York 17.

National Starch Products Honors Cohen and McManus

National Starch Products, Inc., New York, presented forty-five year pins to Elias D. Cohen and N. A. McManus, vice-presidents of the company, at a recent staff meeting. Both executives joined the company in 1902 when it was known as the National Gum & Mica Company.

Bristol-Myers Assigns Wolcott to New Post

Bristol-Myers Company, drug manufacturer, New York, has named Dr. George L. Wolcott director of its professional department. He has been serving as assistant medical director of Bristol Laboratories, Inc., a subsidiary, since August of last year. He was at one time senior medical officer of the Federal Trade Commission, and served as a major in the Army Medical Corps during the war.

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Trade Briefs

Chemical fertilizers imported into Chile in January-October, 1946, were valued at approximately $1,920,000, a 12 percent increase over the corresponding period the previous year.

Phosphate rock production in Tunisia of 1,399,000 metric tons during 1946 was approximately double the 1945 output, but was still 23 percent lower than the 1937-39 average.

Phosphate rock mined in Egypt is finding a ready market in South Africa, Australia and New Zealand, according to a recent announcement. Production, however, is being hampered by difficulties in securing new machinery and adequate supplies of timber.

A.I.C. Award Winner

Dr. Ernest H. Volwiler, executive vice-president of Abbott Laboratories, will be awarded the Honor Scroll Award of the American Institute of Chemists for "his large number of contributions to the field of medicinal chemistry and also for his outstanding work in the organization of research programs." Presentation will take place at the Fall meeting of the Chicago chapter of the institute.

Sun Oil Names Warford New Wax Section Head

Sun Oil Company, Philadelphia, has appointed J. R. Warford special representative in the United States to head a newly created wax section in its industrial products department, and has named George W. Mock, technical representative for wax products to assist him.

Associated with Sun Oil since 1920, Mr. Warford was until recently managing director of British Sun Oil Company, Ltd., London; Netherlands Sun Oil Company, Rotterdam, and its subsidiary, Belgium Sun Oil Company, Antwerp. As a lieutenant colonel in the Army during the recent war, he directed the distribution of petroleum products in the European battle sector.

I.T.A. Forming Councils In Foreign Countries

OPD Washington Bureau

The International Trade Association, Washington, is taking immediate steps to organize national councils in foreign countries, as the result of the prompt response received to an invitation despatched in April.

H. Fred Willkie, chairman of the board, said that "this simply means that if the John X. Jones Company of Newark, Ohio, and the Empresa de Productos de Peira, Mozambique, wish to exchange goods or services, they will be quickly assisted by the councils of this association."

Manufacturers, excort-import houses and service companies wishing to expand their overseas trade have been invited to correspond with the association at its headquarters in the Munsey building, Washington.

Hercules Appoints Dairy Products Head

Hercules Powder Company, Wilmington, Del., has appointed Earl H. Cone, jr., manager of the dairy products division of the paper makers chemical department, to succeed the late Harold M. Johnson.

Mr. Cone was formerly assistant sales manager of the department's industrial chemical division. He will carry on his work in Wilmington, although his predecessor was located in Chicago. Donald C. Nicholson, former sales supervisor of the dairy products division, will assist Mr. Cone.

Bristol-Myers Plans McGill Research Inst.

W. M. Bristol, jr., executive vice-president of Bristol-Myers Company, manufacturing chemists, New York, has announced a grant-in-aid to McGill University, Montreal, to enable it to establish a research institute of bio-physics within the department of medicine of the medical school, and the establishment of fellowships therein. The research institute will be under the directorship of Dr. K. A. Evelyn.

Calif. Standard Moves Gay from Oronite Post

Standard Oil Company of California has transferred Norman N. Gay, formerly manager of the product development division of Oronite Chemical Company, a subsidiary of Standard, to the special products division of the parent company.

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Purchasing Agents

—Continued from page 7

petroleum benzene will come along to stabilize the price a little above that for toluene and xylene.

Glycerin.—Shortages of fats and oils have contributed production of soap and that has meant less glycerin from the customary sources. At the same time, industrial demand has been increasing so that the termination of war uses has not brought much relief. A $7,000,000 plant is under construction in Texas for the production of glycerin by the interaction of a petroleum derivative with salt. It will be ready next Spring. This synthetic process was ready for use ten years ago. It was not utilized mainly because the supply and use of glycerin were not given long-term consideration: the capital risk was regarded as two much to take. Now some of the biggest buyers of glycerin have entered upon long-term contracts at a fair price, and preparations to synthesize glycerin are well on their way.

Phthalic anhydride.—With production of steel decreasing and demand for alkyd resins increasing, the supply of naphthalene from by-product coke operations becomes steadily less adequate. The petroleum industry comes in with orthoxylene to take the place of naphthalene as the raw material of phthalic anhydride essential in making alkyd resins. The first plant is in successful operation on the West coast, and petroleum refiners everywhere are separating orthoxylene from gasoline at a price but little above that of coaltar naphthalene. makers of alkyd resins are taking the new phthalic anhydride as fast as they can get it.

Market research will have a big part in the future economics of the petroleum industry, Mr. Oostermeyer said. Purchasing agents, through cooperation with suppliers and potential suppliers, can contribute much to the satisfactoriness of its service.

Chemicals Buying

At the meeting of the chemical and allied products buyers group Joseph F. Parsons, assistant to the director of purchases of Monsanto Chemical Company, was elected chairman for the ensuing year. He presided over the meeting, together with O. C. Ferris, of the Schering Corporation, retiring chairman.

Round table discussion of problems currently besetting buyers of chemicals brought to light the opinion that many contract buyers are accepting the full quantities allowed under their contracts, even though they do not need such amounts, in order to insure renewal of their contracts.

Many of the members present were of the opinion that this practice was fostering "black markets" and mention was made of the "grey market" now existing with respect to caustic soda and soda ash.

Mr. Parsons suggested that the group sponsor a monthly bulletin, to be included in the association's weekly brochure, outlining supply and buying conditions for chemicals throughout the country, and his idea was enthusiastically adopted by the assembled members, many of whom offered to cooperate to the extent of furnishing information in regard to their section of the country.

Lead Supply

Irwin H. Cornell, vice-president and sales manager of St. Joseph Lead Company, St. Joseph, Mo., predicted that supply of lead may equal demand by Summer. He estimated that 1947 supply will be about 200,000 tons larger than 1946 when about 900,000 tons were consumed in the United States.

Expressing fear that lead is overpriced at 15 cents a pound, Mr. Cornell said he feared this may lead to the use of substitutes for lead, such as zinc, aluminum, rubber, plastics, glass, ceramics, and many others.

Views on Copper

Louis S. Cates, president of Phelps Dodge Corporation, asserted that the domestic copper industry will be able to fill all normal peacetime requirements for the metal, if given the assurance of a reasonable price through adequate tariff protection. Denying that the present-day demands for copper can be regarded as permanent, Mr. Cates predicted that the present stringency will not continue.

On the other hand, C. Donald Dallas, chairman of the board of the Revere Copper & Brass, Inc., said "we must look to the mines of the world... in Chile, Peru, Mexico, Canada, Africa .wherever they are .for the rising copper needs of our economy plus an urgently needed defense stockpile of the metal." He intimated strongly that the two-year suspension of the 4 cents excise tax probably would have to be made permanent to safeguard our copper needs.

Availability of Containers

Discussing the availability of cans for packaging, William C. Stolk, vice-president of the American Can Company, said that the "picture for 1948 looks bright," but added that difficult, if not entirely impossible, to predict future prices.

He went on to explain that conditions have materially changed since the first of this year, with the demand for cans for some products showing a definite slackening, but with demand for cans for non-food products substantially increased.

Speaking on glass containers, E. A. Schreck, vice-president of Knox Glass Associates, Inc., Knox, Pa., said that the industry could produce 150,000,000 gross of these containers next year if demand existed for them.

He detailed the advantages of glass containers over other types, and said that the glass industry is launching a program of market research and promotion to acquaint the country with these advantages.

F. T. Barton, president of Jones & Laughlin Steel Barrel Company, Pittsburgh, reported that there is sufficient manufacturing capacity to meet the present increased demand for steel drums, with the only factor preventing it being the critical supply of steel sheets. He expressed hope that this will be corrected in 1948.

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Petroleum Derivatives

Increasing demand for all petroleum products continued to exert pressure on refiners and marketers last week, and call for all products was said to be above normal. Spot prices for gasoline and heavy fuel oils were reported to be on the upgrade in many areas, and there were reports of "premiums" being offered for gasoline.

Pressure exerted on price quotations by the continuing shortage of gasoline and fuel oils has generally been resisted in the overall market for petroleum derivatives, but there have been several instances in the past month of isolated increases in price. Last week one major supplier advanced postings for aromatic solvents 2 cents per gallon, but competitors made no attempt to meet this advance.

Supplies of these products have generally shown no improvement, and few suppliers could see any prospects for additional quantities in view of the shortage of basic crude oil and gasoline. Some products continued to be in fairly good supply last week, but many of these were beset by shortages of containers and transportation facilities.

Oil refinery operations last week hit the highest point in two years, with crude runs to stills averaging 5,000,000 barrels per day, according to the American Petroleum Institute.

Solvents and Diluents

Aromatic Solvents — Market continued to be active during last week, with good supplies reported to be on hand for immediate delivery. Petroleum toluol and xylol were receiving considerable interest and were said to be available in quantities adequate to meet all requirements. One major supplier announced a price increase of 2c. per gallon for all aromatic solvents, but competitors have made no move to meet this advance.

Cleaners' Naphtha — Very little change in the overall market picture with regard to this material was noted last week, with demand continuing to run high and supplies generally sufficient to meet all requirements. Future supplies were still considered to be a matter for speculation, and most producers were unable to give any accurate prediction of the future availability. No changes in quotations were reported during the week.

Lacquer Diluent—Continued to be available in representative quantities from all suppliers, with demand holding at former levels. Both the benzol and toluol types were receiving high interest and were generally available for immediate shipment. Firm tone of the price structure remained unchanged during the week.

Mineral Spirits — Peak production continued to meet all requirements despite the consistently high rate of buyer interest that has resulted in somewhat tightening supplies. Current shipments were being maintained in most areas and movement of materials was said to be satis actory. Firm prices remained at former levels.

Stoddard Solvent — The previously reported tendency of the supply situation to tighten up had not progressed far enough last week to cause any difficulty in obtaining representative quantities of this material. Demand was still reported to be high, with supplies generally sufficient to meet all requirements. Current deliveries were being maintained at former price levels.

Rubber Solvent—Stringency of supply continued to feature this market last week, but most producers were still making current deliveries. The automobile and tire industries have put a consistently heavy demand on producers and have effectively prevented any accumulation of stocks. Prices remained firm at former levels.

V. M. & P. Naphtha—Production continued to fall below the extremely heavy demand, and some producers were unable to fill all requirements. As in the case of other naphthas, prospects were not regarded as good for additional supplies of this material in the near future. No changes in quotations were reported during the week.

Markets at Other Centers

Los Angeles.—Call for petroleum specialties was good here last week. Supplies were adequate.

Lighter Fractions

Butane—Reported to be in good supply, with demand somewhat lower than a month ago, but said to be normal for this time of the year. Movement of materials was being maintained on a current basis by most suppliers and prices remained firm at former levels.

Heptane—Production facilities continued to be equal to filling all requirements despite the high demand that has existed for some time. Current deliveries were being made in most areas and no changes in quotations were reported.

Hexane—Still reported to be not in free supply, although sufficient material was on hand in most instances to insure current deliveries of any reasonable amount. Substantial quantities were said to be available for immediate shipment at some points, but consistently good demand has prevented accumulation of surplus stocks.

Pentane—Demand was still said to be active, but production was being maintained at a point sufficient to meet it on a current basis. No changes in quotations were reported during the week.

Propane—Deliveries of this gas continued to be hampered by the shortage of high-pressure tankcars and bottles, although the transportation situation was described as being slightly better than it was a month ago. Production has remained at peak levels and existent shortages of supply could be traced directly to lack of transportation. Demand was reported to be holding at former levels and no changes in quotations were reported.

Markets at Other Centers

Los Angeles.—Supplies good, demand excellent.

Petrolatums and Waxes

Paraffin—No relief was in sight for the extreme shortness of supply for these waxes, and demand remained at the former high level. Uncertainty about future granting of export licenses was causing some unease among suppliers in view of the tightness of supplies for domestic use. Prices have remained firm at former levels.

Petrolatums—General market picture was regarded as good in most quarters, with these materials in easy supply and the availability of drums and shipping containers exerting the only limitations on shipments.

White Mineral Oils—Continued to be available in substantial quantities, with demand reported to be holding at the former good level. Shipments continued to be somewhat hampered by shortages of drums and containers.

Market Trends

Prices Advanced
None

Prices Reduced
None

(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended May 24 totaled 237,702,000 barrels, according to the Bureau of Mines. Compared with the total 237,303,000 barrels for the preceding week, this represents an increase of 399,000 barrels, comprising an increase of 287,000 barrels in stocks of domestic crude and an increase of 112,000 barrels in stocks of foreign crude. Heavy crude-oil stocks in California, not included in the gasoline bearing stocks, totaled 5,704,000 barrels, an increase of 3,000 barrels.

For Late Market Developments, See Page 4

N.Y. State Issues Industrial Directory

New York State Department of Commerce has issued an "Industrial Directory of New York State" listing 36,000 manufacturing and mining firms. The directory includes three sections grouping the companies alphabetically, by name, by type of manufacture and by county. The 836-page volume, which costs $12.50, may be obtained from M. P. Catherwood, Commissioner of Commerce, Albany 7, N. Y.

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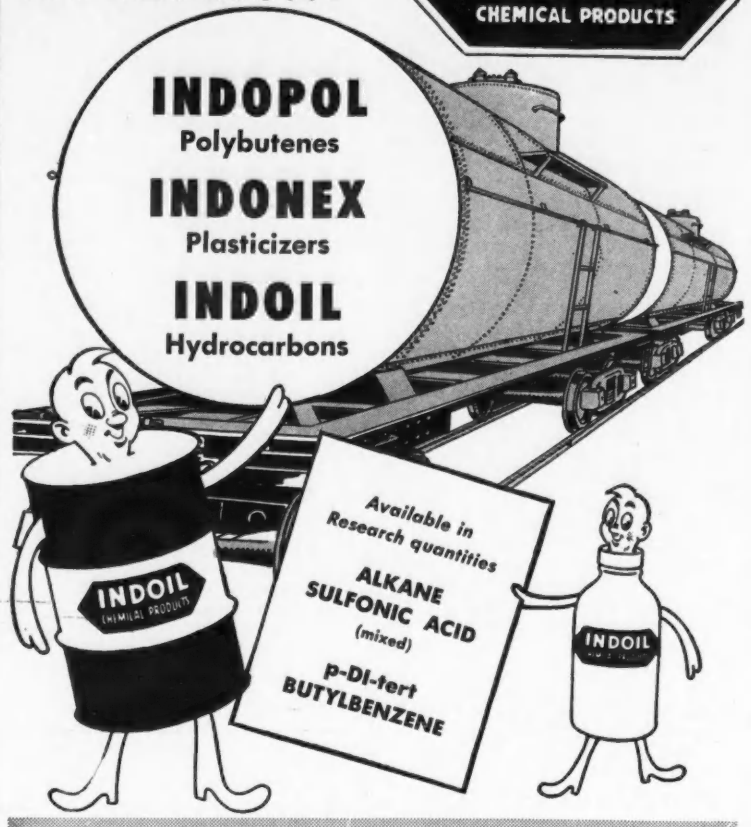

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Protective Coatings Materials

There was a general easing of supplies throughout the paint raw materials market last week, but several important items such as alkyd resins, organic toners, and Spanish oxide remained tight. Titanium pigments, as well as those based on lead and zinc were still critical. There was a continued trend toward a lowered volume of finished product business in paints as buyer resistance persisted.

The War Assets Administration announced that during the past twelve months they had averaged $1,000,000 per month in the sale of paint products. In view of the price at which these paint materials are being disposed of, this represents a considerable volume of business which would ordinarily be going to regular manufacturers.

The current slump in the molding and fabrication plastics industry continued unabated last week, but it was felt in some quarters that this would be overcome within two months.

Most earth colors were reported to be in ample supply to meet demand, and the market was quiet. The lessened demand from the plastics industry for plasticizers has made these materials very much more readily available, with the exception of tricresyl phosphate and dioctyl phthalate. Increased production of methylethyl ketone was announced, and cellulose materials were more available.

Formal announcement of the governments price support program for naval stores had a stabilizing effect on the gum rosin and turpentine markets. Most grades of rosin remained unchanged with a slight advance for some of the intermediate grades. Turpentine fluctuated between 62 cents and 65 cents per gallon.

It was reported that Argentina is considering abolition of restrictions on casein, but official confirmation could not be obtained. Shellac prices were firm and the market very quiet. Demand for glue remained strong despite a slackened call from the furniture industry. Stearates were reduced 3 cents per pound. Some natural resins were shaded in price 1 to 2 cents per pound, but their cost would not permit further shading, and dealers were loaded with heavy inventories, making the market unstable and prices generally unreliable.

Hydrocarbon resins dropped 10 percent in price which brought them in line with other recent declines in synthetic resins. Polyethylene resin was reduced 4 cents to 7 cents per pound.

Market Trends

Prices Advanced

Rosin, gum, G, H, 24c. per 100 lbs.
I, 10c. per 100 lbs.

Prices Reduced

Batu gum, bold, 2c. per lb.
Butyl lactate, 1c. per lb.
Butyl stearate, 2½c. per lb.
Dammar gum, Batavia, 1c. per lb.
Singapore, No. 1, 1c. per lb.
Singapore, No. 2, 2c. per lb.
Hydrocarbon resins, 10 percent.
Mastic gum, 5c. per lb.
Metal stearate, 3c. per lb.
Rosin, gum, K, M, N, 15c. per 100 lbs.
WG, 10c. per 100 lbs.
WW, X, 5c. per 100 lbs.
Tributyl phosphate, 4c. per lb.
Turpentine, gum, 3½c. per gal.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
175.0	175.0	179.8	140.2

(For Current Prices see Page 9)

Prime Pigments

Bone Black—The bone black market in April was reported by the Bureau of Census to show a total production of 558 tons, with shipments amounting to 984 tons leaving stocks on hand at the end of the month of 1,030 tons. Production was split up into 329 tons of sugar refiner's grade, 143 tons of corn syrup refiner's grade and eighty-six tons of fine pigment grades.

Chrome Colors—The chrome green and chrome yellow market has eased considerably, with manufacturers getting well caught up on back orders. Prices remained firm, and demand was slowing. Shipments were reported to be prompt.

Lead Pigments—There was no significant change in the lead pigment situation last week. Suppliers continued to work against a backlog of orders and prices remained firm.

Mineral Black—This pigment was in abundant supply, and the prices were firm at all points despite a lessening demand.

Ochers—Both American and French types were reported as plentiful. Demand was not heavy, with prices firm.

Organic Toners—No relief in the tight supply situation on organic toners of most types was expected due to raw material shortages. Prices were firm, and demand was heavy, far exceeding the supply.

Red Oxide—Red Persian Gulf oxide was beginning to make its appearance in larger quantities, and it was hoped that this pigment would become more generally available.

Supplies of Spanish red oxide pigment remained tight due to lack of packaging materials for shipment and also due to lack of transportation in Spain for bringing the material down from the mines to the shipping points. There was also reported a lack of shipping space. Prices remained essentially unchanged.

Siennas—The supply of raw and burnt siennas was adequate to meet demand, and the domestic materials were readily available in large quantities. The market was quiet, and prices were firm. Some 350 bags were imported last week.

Synthetic Oxide Pigments—Brown, red, and yellow synthetic oxide and hydrate pigments were considered to be in a relative tight supply position primarily because of the shortage of scrap iron used in their manufacture. Demand for yellows and browns exceeded the demand for reds, it was reported.

Titanium Pigments—Some production from new plant facilities was finding its way into the market, but was insufficient to ease the supply situation significantly. Demand still far exceeds the supply and this situation may be attributed primarily to lack of sufficient plant capacity. Suppliers were slow to expand their facilities of manufacture because of the great expense involved, and while some expansion was proceeding, it was not expected that it would be effective for many months.

Umbers — Burnt umber of the American, Italian, and Turkey types were reported to be readily available. Like most other earth colors at the present time, umbers were not in heavy demand. The market was quiet and prices were firm. Some 1,740 bags were imported last week.

Yellow Oxides—Brown and yellow oxides such as metallic brown and the Peruvian type yellow oxides were reported as plentiful. The market was generally slow, with prices firm.

Zinc Pigments — Prices remained firm last week and the supply was lagging behind demand very considerably. No immediate relief in the supply situation was expected.

Synthetic Resins

In the plastics industry where there has been a marked slump, causing the demand for molding materials to fall off sharply, there was a general feeling expressed that molders will be back in the market again within two months. The demand for cellulose nitrate, cellulose acetate, polystyrene, polyethylene, acrylic resins and ureaformaldehyde and melamines was light. Prices on most of these materials remained firm, but some price reductions were effected. Polyethylene was reduced in price from 53c. to 49c. per pound, in quantity lots. Colored polyethylene molding compounds were reduced in quantity lots from 63c. to 56c. Confidence in the industry's future was indicated by one large producer announcing construction of additional plant facilities which will double its polyethylene production. Increased acrylic resin production capacity has also been effected.

It is interesting to note the trend of costs in the plastics industry which

For Late Market Developments, See Page 4

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accompanies large-scale production. The price of polyethylene molding resins have dropped 51 percent since they were introduced in 1942.

Cellulose acetate-butyrate, ethyl cellulose, nylon and vinyl molding resins were firm in price.

Alkyds—The supply of alkyd resins was still inadequate to meet demands, due primarily to lack of phthalic anhydride. Prices remained firm.

Hydrocarbon Resins — A general price reduction on hydrocarbon resins amounting to 10 percent was effected last week. This brings the hydrocarbon resins in line with the general trend which has been taking place in the synthetic resin industry. This price reduction, when taken in addition to the 15 percent reduction in price announced last December, leaves the price of hydrocarbons now at an average of only 18 percent above prewar level.

Phenolic Resins—Both pure phenolics and rosin and ester modified phenolics remained firm in price last week. Cresylic and butyl or other alkyd substituted phenol resins were in extremely short supply, with other types considerably less critical and some freely available.

Other Synthetic Resins — Maleic ester resins, urea-formaldehyde, melamine and vinyl resins remained in insufficient supply with prices firm. More abundant were such resins as glyceryl rosin esters and pentaerythritol esters which were in fair supply with prices unchanged.

Natural Resins

Demand for natural resins was very slight last week with dealers holding high inventories at high prices which would permit only slight shading despite the lack of demand. Imports of resins ordered three to four months ago arrived in considerable quantities last week. In the face of these high cost shipments with no significant demand at the prices at which they must, in view of their cost, be sold; makes the position of the dealer rather precarious. Accordingly the market is extremely unstable and no really reliable price can be quoted. In an effort to ease the situation somewhat, various degrees of shading of prices is taking place and this quite non-uniformly.

Copal Resins—Imports of 1,468 bags arrived last week. These came from Manila and Singapore.

Congo Resin—Some 3,165 bags of congo resin arrived last week from Matadi to add to the heavy inventories already on hand. Demand for this resin in England, because of the shortage of synthetics, keeps the price high. Added to this is an excise tax recently applied by the Dutch government which will tend to make the situation still worse. Since the market in this country will not sustain such high prices in view of the competition of synthetics, demand is extremely low here, and efforts to unload inventories are not meeting with much success.

Dammar Resins—Prices on Dammar were shaded 1c. and 2c. per pound last week, as imports totaling 200 cases and 2,191 bags arrived. Most of the material arriving was warehoused.

Batu Resin—Prices dropped 1c. and 2c. per pound last week on bold and on nubs and chips.

Elemi—Prices remained firm on this resin despite the lack of demand.

Mastic—This resin dropped about 5c. per pound in an effort to shade the price and move inventories.

Miscellaneous Materials

Casein—Export prices from Argentina for casein were fixed by the Argentine Institute for the Promotion of Foreign Trade as follows: 30-60 mesh, 1,630 pesos per ton, equivalent to 19.9c. per pound; 90 mesh, 1,703 pesos per ton, equivalent to 20.8c. per pound; rennet extra, 2,000 pesos per ton, equivalent to 24.5c. per pound, and rennet ground, 2,073 pesos per ton, equivalent to 25.4c. per pound.

Glue—Total glue production during April, according to the Bureau of Census, amounted to 14,225,967 pounds which was 19.7 percent higher than production for April of last year. This production was split between bone and hide glue, the total for bone glue being 8,011,397 pounds and hide glue production amounting to 6,214,570

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pounds. Total glue shipments amounted to 13,885,397 pounds leaving stocks at the end of the month of 9,154,898 pounds.

Glue being a valuable adhesive for the furniture, leather, paper and other industries is in heavy demand. It was felt that the supply situation in the near future would be such that convenient inventories by manufacturers and consumers could not be soon expected, because of the usual drop in production that occurs during the warm weather. Animal slaughtering continued at a normal rate, but there is considerable lag between the slaughtering and the marketing of bones and trimmings for glue manufacture.

The rigid export requirements and high prices prevailing in Argentine definitely limits shipments of bone and trimmings from that country to this. The demand from new users of glue and the expanded demand from old users has served to offset the slackened demand in the furniture industry where the volume of production has dropped considerably.

The current market situation in the glue industry is such that even if there were a marked decline in demand, it would require two to three months before a minimum working inventory could be accumulated.

Shellac—The market situation in the shellac industry remained very quiet last week. It was reported that shellac interests in India were becoming concerned over the American competition of synthetic resins for such uses as phonograph record manufacture. It was reported from New Delhi that official figures place the number of employees engaged in the purification of crude shellac at 30,000, while the number of families engaged in the collection of shellac from the trees numbers well over 3,000,000. United States consumption of shellac amounts to between one-half to two-thirds of India's total production. Most of this was consumed by the record manufacturing industries, which can now make records from synthetic resins at comparable costs, and such records have the advantage over shellac of being unbreakable. This situation is reported to have created a crisis in the Indian shellac industry causing considerable concern.

Stearates—The price reduction on stearic acid which occurred recently showed its effect this week with the reduction in price of various stearates amounting to 3 cents per pound. Supplies of these materials were reported to be sufficient to meet the demand.

Lacquer Materials

Cellulose Acetate-Butyrate—Prices remained firm on low, medium, and high butyryl content resins, and on cellulose acetate and triacetate resins. A new high butyryl content resin has been introduced recently ranging from 47 to 50 percent butyryl content. This new resin has the advantages of lower melting point, lower moisture absorption, wider solubility range, and increased compatibility over resins of low or medium butyryl content.

Methylethyl Ketone—Increased production on a tankcar basis of methylethyl ketone by a relatively new producer of this solvent was announced last week.

Naval Stores

The formal announcement of the government loan in support of the price of gum rosin and turpentine has had a steadying effect upon the market. Prices of rosin remained essentially stationary for most grades. Some of the intermediate grades advanced slightly. Turpentine hovered between 62c. and 65c. per gallon.

On the New York market, prices remained firm and trading was very quiet.

Savannah, June 5.—Following is a record of the turpentine market for the week:—

	Bulk gallons Cents.	Sales.	Barrels Receipts.	Shipments.	On hand.
Thursday..	65	4,100	129	409	1,180
Friday ...	65	...	272	300	1,152
Monday ..	65¼	7,600	1,169	1,185	1,136
Tuesday ..	65¼	...	...	...	....
Wednesday	62½	169	1,520	233	2,433
Thursday..	61½	8,000	241	75	2,599

Savannah, June 5.—Following is a record of the rosin market for the week:—

Price per unit—Low of range quoted

	Thur.	Fri.	Mon.	Tues.	Wed.	Thur.
B	$7.00	$7.00	$7.00	$7.00	$7.00	$7.00
D	7.00	7.00	7.00	7.00	7.00	7.00
E	7.31	7.31	7.31	7.31	7.31	7.31
F	7.61	7.61	7.61	7.61	7.61	7.61
G	8.01	8.01	8.01	8.01	8.25	8.25
H	8.01	8.01	8.01	8.01	8.25	8.25
I	8.15	8.15	8.15	8.15	8.25	8.25
K	8.40	8.40	8.40	8.40	8.25	8.25
M	8.40	8.40	8.40	8.40	8.30	8.25
N	8.40	8.40	8.40	8.40	8.40	8.25
WG	8.40	8.40	8.40	8.40	8.40	8.30
WW ...	8.40	8.40	8.40	8.40	8.40	8.35
X	8.40	8.40	8.40	8.40	8.40	8.35

	Drums					
Sales ..	...	...	...	...	135	100
Receipts.	198	228	8,727	...	658	896
Shipments	...	236	9,937	...	...	1,042
Stocks ..	4,376	4,368	3,558	...	4,216	4,070

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Properties	Aromatic HB	Aromatic L	Aromatic H
Specific Gravity, 60°/60°F.	0.950	1.043	1.070
Flash, Cleveland Open Cup, °F.	214	255	299
Viscosity, S.U.S. at 210°F.	15	48	155
B.S. & W., %	0.1	0.2	0.7
Pour Point A.S.T.M., °F.	<-20	-15	34
Iodine Number, wijs	106	121	117
Unsulfonated Residue, A.S.T.M., %	20	6	6
Vacuum Distillation (corrected to atmospheric pressure)			
10%, °F.	464	458	528
50%, °F.	494	600	670 (Cracked)
Color	Dark	Dark	Dark

Suggested Uses: Low-cost paints and varnishes, printing inks, core oils, shingle stains, bituminous and asphaltic paints, saturating asphalts, flotation oils, soil sterilizers, rubber compounding, electrical insulation, insecticides and fungicides. Write for samples and complete information.

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RETAL is an economical way to buy drying oil acids and since, like all tall oil, it is a combination of a pale rosin and a drying oil extender, it represents these two ingredients in convenient form.

In the production of rosin modified alkyds, the comparatively high rosin acid and low fatty acid content gives maximum flexibility in formulating.

RETAL has the following typical analysis: Acid value, 168; saponification value, 180; percent rosin acids, 49; percent fatty acids, 39; percent ester and unsaponifiable, 12; Sp. Gr. at 80 Deg. F. = 0.981; color (Hellige) = 11; flash point (Cleveland open cup) = 385 Deg. F.; fire point (Cleveland open cup) = 435 Deg. F.

RETAL is ideally suited for a wide variety of applications, as well as in the production of synthetic resins.

Write for samples.

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Obituaries

Dr. Hardee Chambliss

Dr. Hardee Chambliss, chemist and former dean of the Catholic University school of science, died June 1 in Doctor's hospital, Washington, D. C. He was seventy-four years old.

Appointed dean of the school of science in 1924, Dr. Chambliss held that position for ten years. He later did research work for the Department of Agriculture.

Dr. Chambliss began his teaching career in 1900 when he joined the faculty at Columbia University. He also taught at Oklahoma A. and M. College. During World War I he was manager of United States Nitrate Plant No. 1 at Sheffield, Ala.

Robert L. Hutcheon

Robert L. Hutcheon, former president of Passonno-Hutcheon Company, paint manufacturer, Cleveland, died recently in Brooklyn, N. Y., while visiting members of his family. He was sixty-one years old.

Mr. Hutcheon was an employee of Benjamin Moore & Co. from 1898 until 1920, and became president of the Passonno-Hutcheon Company in 1925. He was formerly president of the Cleveland Paint, Varnish and Lacquer Association, and had held other offices in that organization.

William D. Patten

William D. Patten, retired president of Westvaco Chlorine Products Company, New York, died June 4 in Los Angeles. He was eighty-two years old.

Mr. Patten, a self-educated chemist, discovered the use of sodium pyrophosphate in the manufacture of baking powder. He was a founder of Westvaco and served also as president of Monarch Chemical Company and vice-president of Warner Chemical Company, both subsidiaries of Westvaco.

Born in Brooklyn, Mr. Patten began his business career in 1888 with the chemical firm of Alexander J. Howell. He left that company eighteen years later in order to organize Westvaco.

Dr. Glen M. Smyth

Dr. Glen M. Smyth, technical consultant for Calco Chemical Division of American Cyanamid Company, Bound Brook, N. J., died June 4 at Muhlenberg hospital, Plainfield, N. J. He was fifty-seven years old.

Dr. Smyth helped to found Beaver Chemical Corporation and was its resident director until the company was absorbed by Calco. Earlier in his career he was chief chemist of Union Dye & Chemical Company.

A native of Horton, Kan., Dr. Smyth received his education at Stanford University, Harvard University and the Charlottenburg Technical Institute in Berlin.

Rey W. Curtis of the purchasing department of Gulf Refining Company, New York, died in New Rochelle, N. Y., June 3. He was fifty-nine years old.

William E. Dalton, vice-president of Will Corporation, chemical manufacturer, Rochester, N. Y., was drowned May 30, when his canoe overturned on Lake Ontario. He was fifty-four years old.

Harry E. Estes, jr., president and treasurer of Superset Brush Company, Inc., paint brush manufacturer, Bellows Falls, Vt., died recently at Hanover, N. H. He was fifty-four years old.

Edward R. Eichner, civil engineer long associated with the New York office of Socony-Vacuum Oil Company, died recently at his home in Upper Montclair, N. J.

Rupert A. Fouts, former vice-president of the Red River Refining Company, died June 2 at the home of his daughter in Houston, Texas. He was seventy-seven years old.

Peter P. Goetter, retired engineer for the Bayway refinery of Standard Oil Company of New Jersey, Linden, N. J., died June 1 at his home in Roselle Park, N. J., after a long illness. He was eighty-eight years old.

Hal M. Nichols, who recently retired as head of the Sales Engineering Division of the American Can Company, Chicago, died June 3 in Lake Worth, Fla. He was sixty-four years old.

Harold T. N. Smith, president of the Salem Oil & Grease Company, Salem, Mass., died June 2 in that city. He was fifty-seven years old.

Pettit Company Shifts Official Family

Pettit Paint Company, Belleville, N. J., has elected John L. Pettit chairman of the board of directors, and has named John W. Johnson to succeed him as president. Other officers elected included Richard M. Larrabee, vice-president and treasurer; Fred C. Becker, vice-president; Robert Andersen, assistant secretary and assistant treasurer, and George S. Wing, secretary.

Arthur G. Thomas has been appointed chief chemist in charge of production and raw material purchases. He was formerly associated with the Sherwin-Williams Company as technical formulator of industrial finishes.

National Can Names Murphy to New Post

National Can Corporation has appointed Stephen M. Murphy district sales manager of its western division general line sales, with headquarters at the Chicago office. He has been with the company for thirteen years, and was previously associated with sales and production in the eastern division.

Nuodex Markets New Mildewproofing Agent

Nuodex Products Company, Elizabeth, N. J., is marketing a new mildew proofing agent, called 'Nuodex 100 W.D.", which is described as being colorless, odorless and extremely effective. In addition, the makers claim that the new agent will not yellow on aging, does not tender fabrics, and is non-irritant.

Hilo Names Busker

Hilo Varnish Corporation, Brooklyn, has appointed David Busker to its research and development staff for the study of furniture finishes. Mr. Busker was formerly with Rexalin Flexible Finishes, Inc., and the paint and bituminous section of the National Bureau of Standards.

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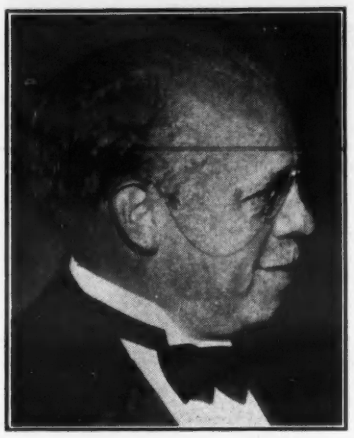

Dr. Colin G. Fink, head of the department of electrochemistry at Columbia University, has resigned as secretary of the Electrochemical Society, effective July 1. A former president of the society, and recipient of its Acheson medal in 1946, Dr. Fink had served as secretary for twenty-six years. Dr. R. M. Burns, director of chemical research, Bell Telephone Laboratories, has been chosen to succeed him.

Phila. Production Club Nominates Phelps

Philadelphia Paint & Varnish Production Club nominated Neil T. Phelps, of Sloan-Blabon Corporation, Trenton, N. J., to be president at its May meeting. Other nominees included H. A. McConaghie, of Felton, Sibley & Co., for vice-president; G. H. Wescott, of E. I. du Pont de Nemours & Co., for secretary, and J. P. Harner, of A. Wilhelm Company, for treasurer. Balloting on the nominations will take place at the June meeting.

Guest speaker for the evening was A. Tonkonogy, chief engineer of the Industrial Process Engineers, who presented a paper entitled "The Design and Operation of Direct Fired Units for Oil, Varnish and Resin Processing."

Sherwin-Williams, Dow In Research Project

Dow Chemical Company and the Sherwin-Williams Company, paint manufacturer, are undertaking a program of field research in industrial paints at Freeport, Texas, which it is estimated, may result in a reduction of hundreds of thousands of dollars a year in industrial maintenance costs throughout the country.

The tests were initiated in order to determine the exterior paints most suitable for Dow's chemical plant at Freeport, but the companies expect their findings to provide scientific data on industrial paints which can be applied rather broadly in the chemical, petroleum and other industries.

The project was undertaken as a joint research effort after experience that paints previously used were unable to satisfactorily withstand the severe exposure conditions.

Pittsburgh Glass Buys Forbes Varnish Co.

Pittsburgh Plate Glass Company has acquired the business of the Forbes Varnish Company, Cleveland, and will operate it as the Forbes Finishes Division of Pittsburgh Plate Glass Company.

Charles H. Reed, formerly president of Forbes, has been named director of the new division, and Lyman J. Lamb and Willard G. Loesch will continue in charge of sales and production. Ouput of the division will be specialized production finishes.

N.E. Paint Club Plans Sports Outing

New England Paint, Varnish and Lacquer Association will hold its annual sports outing at the Woodland Golf Club, Auburndale, Mass., on Thursday, June 12.

G.E. Resin Plant Operating

General Electric Company, Schenectady, N. Y., has begun operations at its new plant at Anaheim, Calif., for the manufacture of glyptal alkyd resins in order to facilitate supplying this product to users on the west coast and in the Orient.

Stearates

ZINC STEARATE — For PHARMACEUTICALS, COSMETICS, RUBBER, PAINTS, VARNISHES, LACQUERS, PLASTICS.

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- 10 Light St., Baltimore 2, Md.
- Public Ledger Bldg., Philadelphia 6, Pa.
- 903 W. Grand Blvd., Detroit 32, Mich.
- 59 East Van Buren St., Chicago 5, Ill.
- 925 Grand Ave., Kansas City 13, Mo.
- 4140 Lindell Blvd., St. Louis 8, Mo.
- 907 South First St., Milwaukee 4, Wis.

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ZINC STEARATE
Many Other Metallic Soaps

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WARWICK CHEMICAL COMPANY
DIVISION
81 FIFTH AVENUE, NEW YORK 15, NEW YORK

CHEMICAL CORPORATION

Oils, Fats, Output, Consumption: Apr.

The preliminary statistics of the factory production and consumption of animal and vegetable fats and oils for April, 1947, as compiled by the Bureau of Census, follows:—

Vegetable Oils

	Pounds	
	Production	Consumption
Babassu, crude	[2]	875,000
Refined	[2]	203,000
Castor, No. 1, crude	8,308,000	8,214,000
No. 3, crude	2,328,000	2,892,000
Dehydrated	3,843,000	2,507,000
Sulphonated	.....	249,000
Chinawood or tung oil	2,031,000	6,978,000
Coconut, crude	74,043,000	72,406,000
Refined	35,720,000	31,057,000
Corn, crude	21,784,000	20,177,000
Refined	18,488,000	6,708,000
Cottonseed, crude	53,475,000	76,609,000
Refined	71,126,000	53,077,000
Linseed	28,850,000	47,453,000
Olive, edible	.....	20,000
Inedible	.....	35,000
Sulphur oil or olive foots	[2]	31,000
Oiticica	.....	1,359,000
Palm, crude	.....	2,839,000
Refined	.....	215,000
Palm kernel, crude	.....	.....
Refined	.....	[2]
Peanut, crude[1]	16,641,000	21,772,000
Refined	20,434,000	12,192,000
Rapeseed	[2]	1,657,000
Sesame	[2]	6,000
Soybean, crude	[6]141,425,000	127,054,000
Refined	[6]115,877,000	101,229,000
All other	2,887,000	1,618,000

Animal Oils

Lard, rendered (including neutral lard and rendered pork fats)	126,012,000	5,741,000
Neatsfoot oil	199,000	323,000
Tallow, edible	7,668,000	4,541,000
Inedible	96,591,000	108,979,000

Fish and Marine Mammal Oils[3]

Cod	22,000	767,000
Codliver	50,000	1,026,000
Marine mammal	.....	1,139,000
Other fish	[4]1,072,000	17,102,000
Other liver	433,000	331,000

Greases

Greases (including garbage and house), other than wool	44,694,000	40,520,000
Wool grease	2,041,000	2,052,000

Secondary Products

Animal fat and oil fatty acids	13,681,000	14,780,000
Animal foots, 100% basis	1,099,000	1,349,000
Fish and marine mammal fatty acids	3,966,000	653,000
Grease and lard oil	6,244,000	3,221,000
Oleo oil	5,087,000	240,000
Red oil or oleic acid	6,825,000	4,743,000
Stearic acid	6,370,000	5,473,000
Foots, from fish and marine mammal oil (100% basis)	[6]	548,000
Stearin, animal, edible	3,113,000	1,099,000
Inedible	2,748,000	859,000
Stearin, vegetable, oil, winter	4,028,000	4,519,000
Tallow oil	528,000	1,569,000
Vegetable oil fatty acids from foots and other than from foods including fatty acids from tall oil, palm oil, refuse, etc.	12,035,000	10,726,000

Other Products

Glycerin, chemically pure (100% basis)	8,531,000	6,139,000
crude (100% basis)	17,245,000	17,084,000
high gravity and yellow distilled (100% basis)	7,651,000	8,127,000
Hydrogenated oils, edible	79,193,000	78,352,000
Inedible	22,551,000	21,344,000
Shortening	99,867,000	527,000
Winterized vegetable oils	36,574,000	.....

[1] Data on production collected by Bureau of Agricultural Economics; stocks held by crude peanut oil producers also reported by Bureau of Agricultural Economics, whereas those held at refineries are collected by the Bureau of the Census.
[2] Included in "All other" vegetable oils to avoid disclosures of operation of individual establishments.
[3] Fish and Wildlife Service collected the data from fish oil producers.
[4] Includes 62,000 pounds of menhaden oil and 111,000 pounds of herring, sardine and pilchard.
[5] Includes 62,000 pounds of menhaden oil and 444,000 pounds of herring, sardine and pilchard.
[6] Not shown to avoid disclosure of individual operations.
[r] Revised.

Raw Materials Used

	Tons	
	Consumption	Stocks Apr. 30
Castor beans	11,245	9,368
Copra	59,214	77,541
Corn germs	27,434	1,006
Cottonseed	164,478	255,855
Flaxseed	43,673	27,451
Soybeans	[r]477,268	[r]1,251,642
Peanuts[2]—		
Farmer's stock[3]	17,543	122,423
No. 2 and oil stock[4]	6,401	13,701
Other	3,734	5,428

[1] Included in other seeds.
[2] Bureau of Agricultural Economics collected the data on consumption and stocks of peanuts.
[3] Weight shown for peanuts in shell. Stocks figures include quantities held for making peanut butter, candy, and for other uses, as well as for crushing.
[4] Weights shown for shelled peanuts. Stocks figures include quantities held at all commercial locations, principally for crushing into oil and meal.
[r] Revised.

Coe Heads G.E. Plastics Plant

General Electric Company has appointed Clarence W. Coe manager of its new Decatur, Ill., plant of the plastics division. He was formerly manager of the plastics division's plant at Fort Wayne, Ind.

Pittsburgh Glass Advances Three in Paint Div.

Pittsburgh Plate Glass Company, Pittsburgh, has appointed Paul R. Croll assistant to the vice-president in charge of the paint division; Dr. William H. Lycan executive director of research with offices at Pittsburgh, and Dr. Howard L. Gerhart director of research for the paint division with headquarters at Milwaukee.

Mr. Croll was formerly technical assistant to the vice-president; Dr. Lycan has been functioning as director paint division research, and Dr. Gerhart moves up from a position as staff chemist at the Milwaukee research laboratory.

Utility Color Names Sauter General Manager

Utility Color Company, Newark, N. J., has appointed F. Albert Sauter general manager to succeed S. C. Scheuer, who is no longer with the organization. Mr. Sauter has been affiliated with the company for the last eleven years in charge of development and production work.

Fuller's Earth Sales Increased in 1946

OPD Washington Bureau

Fuller's earth sold or used by producers in the United States in 1946 totaled 298,752 short tons, valued at $3,702,993, compared with 296,368 tons, valued at $3,463,913, in 1945, according to the Bureau of Mines.

Producers reported to the bureau that 68 percent of the total tonnage was consumed in mineral oil refining; 16 percent in absorbent uses; 8 percent in vegetable oils; 3 percent in rotary drilling mud, and the remainder in insecticide, binder and other various uses.

Emery Names Hull Plastics Representative

Emery Industries, Inc., has appointed R. T. Hull eastern technical representative in its "Plastolein" products department, which produces plasticizers and special fatty acids for the plastic, resin and surface coating industries.

Mr. Hull was formerly associated with the Mellon Institute of Industrial Research, and has spent some time studying the manufacture and use of "Plastolein" products.

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Oils, Fats and Waxes

An easy tone developed in the oils and fats market last week as a result of diminished buying interest. Trading was light and spotty and was restricted to occasional tankcars, with the bulk of sales confined to less carlots for actual requirements. Crude cottonseed oil was unsteady and asking prices could have been shaded fractionally on firm bids. Corn oil was firmer and in fair request, with sales made at ½ cent per pound higher. Coconut oil while dormant was well held and reflected the firmness in copra which was stronger under a good demand for European delivery while, domestic crushers showed little interest in replacements. Linseed oil was reduced 2.6 cents per pound by some crushers against the purchase of new crop seed from Texas. Trading in this oil was slow, though offers of resale oil were lighter last week than heretofore. Tung oil was in fair request for prompt and nearby delivery, with quotations steady at former levels. Inquiry for dehydrated castor oil continued dull and featureless. Tallow and greases attracted less interest than a week ago and while small lot trading was reported at premiums, freer offers from the country appeared to take the edge off the market. Large soap makers were were practically out of the market in view of the reduced demand for soap. Fish oils were lower and refined menhaden and sardine oils were reduced 2 cents per pound. Offers of Spanish olive oil afloat, combined with lack of buying interest, weakened the spot market and quotations were off 25 cents per gallon.

Further sharp price advances featured the carnauba wax market here and in Brazil. Sales were reported for shipment from Brazil at an increase of about 30 cents from the low point established a fortnight ago. Supplies on the spot were again raised 10 to 20 cents per pound, last week.

Market Trends

Prices Advanced

Carnauba wax, 10c. to 20c. per lb.
Copra, $5 per ton.
Corn oil, ½c. per lb.
Cottonseed meal, $2.50 per ton.
Lard, ½c. per lb.
Ouricury wax, 3c. per lb.
Soybean meal, $2.50 per ton.

Prices Reduced

Beeswax, yellow, ref., 2c. per lb.
Candelilla wax, 6c. per lb.
Grease oil, 2c. per lb.
Linseed oil, 2.6c. per lb.
Menhaden oil, ref., 2c. per lb.
Olive oil, 25c. per gal.
Sardine oil, ref., 2c. per lb.
Soybean oil, crude, ½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
195.8	199.8	220.2	193.4

(For Current Prices see Page 9)

Cottonseed Oil

Trading in futures was limited last week. Prices were steady and scored moderate gains, in sympathy with the firm lard market. Inquiry for crude cottonseed oil was slow and sales of occasional tankcars were reported at 21½c. per pound, f.o.b. mills, though quotations were generally named at 22c. New crop crude was sold recently at 18c. for Fall delivery. Bids at 20c. for August shipment were turned down.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended Thursday, June 5, follow:—

	Sales	Cents per pound—High	Low	Close
July	8	25	24.98	24@24.70
September	3	21½	20.85	21¼@21¾
October	..	..	..	20.05@20¼
December	3	19.35	19	18¼@19
January	..	..	..	17 bid
March	..	..	..	16½ bid
May	..	..	..	16½ bid

Total sales, 14 contracts.

Crude oil was nominal at 21½c. per pound, tankcars, f.o.b. mills.

Memphis.—Trading in crude cottonseed oil was quiet. Market was nominal at 21½c. per pound, tankcars, f.o.b. Valley, for July-August shipment. Some new crop cottonseed oil recently was sold at 18c., same basis. Old crop crude soybean oil was available at 17½c. per pound, Valley, for September-October delivery. Cottonseed meal demand improved, 41 percent was raised to $68.50 to $69 per ton, Memphis, June-July shipment. Soybean meal, sacked, was held at $70.50 per ton, June-July. Cotton seed hulls named at $11 per ton, bulk and $16, sacked, f.o.b. Mississippi mills. Cotton crop in this section progressing favorably.

Linseed Oil

Crushers reduced the price of raw oil 2.6c. per pound to 32.4c. in tankcars. This price was based on the purchase of new crop flaxseed from Texas. Argentine oil was quoted nominally on the basis of 35c. per pound, tankcars. Trading was limited to small drum lots. Offers of resale oil were not as numerous as heretofore, which has led to the belief that available oil has been materially reduced. Withdrawals of oil against contracts continued spotty, with the volume still limited. Arrivals of three shipments of Argentine oil at New York last week totaled 7,800 tons and were consigned to the Commodity Credit Corporation against purchases for 1947 second quarter delivery.

Flaxseed—Bids at $6 per bushel for flaxseed to arrive were not attractive to sellers.

Other Vegetable Oils

Castor, Dehydrated—Business was light and mainly for actual requirements. Deliveries against contracts were reported in fair request. Quotations were unchanged.

Coconut — Trading was reported quiet. Market was unchanged and steady with crude oil quoted at 13½c. to 14c. per pound, tankcars, Pacific coast and 14½c. to 15c. Atlantic ports, as to seller.

Copra—The Philippine market was stronger under a good volume of trading for European delivery. Prices were firmer and advanced over 32 to $185 per short ton, Pacific coast and $188 to $191. Atlantic ports. Domestic crushers showed little interest in the market.

Corn—Inquiry was fairly active and the tone of the market was improved. Crude oil was reported sold at 20½c. per pound, f.o.b. mill, with 21c. generally asked. Refined was held at 24c. per pound, tankcars, same basis.

Oiticica—Consuming inquiry continued slow for spot and forward delivery. Market was entirely nominal in view of the scarcity of supplies on spot and lack of interest in shipment from Brazil. It was stated that supplies in Brazil were materially reduced by recent active buying for European account.

Olive—About 300 tons of Spanish oil was reported scheduled to sail June 10 from Seville and was due to arrive at the end of the month. The cost of this oil was reported at $6.20 per gallon, in drums, landed New York, duty paid, for the account of packers. This shipment was reported in exchange against exports of teaseed and other vegetable oils. Supplies of Spanish oil on spot were in poor demand and the market was lower at $6.50 to $6.75 per gallon, drums duty paid, California oil was easier at $5.75 in $6 per gallon, drums according to quantity and seller.

Peanut — Supplies were reported light and the market was quiet. Crude oil was quoted nominally at 23c. per pound, tankcars, f.o.b. mills.

Soybean—Trading was restricted to occasional tankcars of crude oil at 19c. per pound, tankcars, mills, for June shipment, a decline of ½c. per pound. Market was nominal at 19c. for June-September. New crop oil was offered at 17½c. for October-December. Refined oil was inactive and nominal at 23c., tankcars, f.o.b. mills.

Prices of refined bleachable soybean oil in tankcars on the N. Y. Produce Exchange for the week ended Thursday, June 5, follow:—

	Sales	Cents-per-pound—High	Low	Close
July	..	..	..	23 nom
September	..	..	..	20½ nom
October	..	..	..	18 nom
December	..	..	..	17 bid
January	..	..	..	16½ bid
March	..	..	..	16½ bid
May	..	..	..	16½ bid

Total sales, none.

Tung—Fair volume of business was reported at 24½c. to 25c. per pound, tankcars, for prompt and nearby delivery, depending upon quantity and

For Late Market Developments, See Page 4

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seller. It was reported that oil was available at the inside figure in some quarters, though most holders were naming 25c. Drums were quoted at 26c. for carlots and 27c. for lesser quantities.

Fats and Greases

Greases—Trading continued limited to small quantities at premiums to small users. Soapers showed little interest in offerings and the tone of the market was not as firm as a week ago. Prices were unchanged.

Lard—Market was steady and about ½c. above levels of the week previous. Demand was fair for domestic needs while export business was reported slow. Cash lard was sold at 19c. per pound, loose, Chicago. Tierces were higher and nominal at 21¼c., same basis. Lard stocks in Chicago totaled 55,050,630 pounds, June 1, compared with 5,828,050 pounds for the same time last year.

Tallow—Trading was reported spotty in country fancy at 13c. per pound, loose. Small consumers purchased moderate quantities of other grades at premiums, while leading soapmakers continued to show little interest in replacements. Tone of the market was less steady than a week ago.

Animal Oils

Degras—Demand was light and confined to immediate needs. Market was fairly steady at former levels.

Grease Oil—Prices were weak and declined 2c. per pound. Trading was inactive. Prime burning was quoted at 19½c. per pound and No. 1, at 17½c., drums returnable, Chicago.

Neatsfoot Oil—This market continued dull and was entirely nominal.

Oleo—Demand was slow and the market nominal. Extra was quoted at 19c. to 20c. per pound, loose, Chicago.

Fish Oils

Menhaden—Business continued slow and the market was easier declining 2c. per pound. Stocks were offered more freely and quotations were merely nominal. Light pressed was quoted at 22c. per pound, tankcars.

Sardine—Demand was confined to small lots for immediate delivery. Market was easy and quotations were reduced 2c. per pound. Light pressed was offered at 22c. per pound, tankcars.

Fatty Acids

Red Oil—Withdrawals against contracts were in good request while new business was dull. Prices were unchanged.

Stearic Acid—Trading was reported mainly for small lot quantities for actual needs. Deliveries against contracts were in fair demand. Quotations were unchanged and fairly steady.

Cake and Meal

Cottonseed Meal—Despite strong option markets the demand from consuming trade is dead. The mills are fairly well cleaned up but resellers, who are unable to furnish shipping instructions, are offering sacked 41 percent at around $66 f.o.b. mill points in north Alabama, Georgia and South Carolina which based on the option market is most attractive. There is no buying or selling interest for new crop and no trades have been reported.

Peanut Meal—Most mills have sold their entire production and are closed down. There are no general offerings in the market but scattered cars are appearing at prices ranging from $65 to $70 f.o.b. Alabama, Georgia

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Waxes

Beeswax—With business slow, the market developed a weaker tone and prices were easy for most grades. Crude grades were quoted at 54c. to 55c. per pound on the spot. Bleached wax was unchanged, while yellow refined was off 2c. per pound.

Candelilla—Increased offers of wax afloat, resulted in lower market for stocks to arrive and supplies on the spot. Crude on spot was reduced to 68c. per pound and refined to 72c. Demand was inactive.

Carnauba — Market was again sharply advanced following the upturn of the Brazilian market of about 30c. per pound above the recent low point. Interest in shipments was more active. Prices for spot supplies were advanced 10c. to 20c. per pound, and were well maintained. Business was light and spotty, with offerings light. No. 3 chalky was quoted at $1 to $1.05 per pound, No. 2 North country $1.20 to $1.25, No. 3 North country $1.10 to $1.15, refined $1.25 to $1.30 and yellow No. 1 $1.35 to $1.40 as to quantity for spot delivery.

Ouricury — Firmness in carnauba was reflected in this material and quotations were advanced 3c. per pound on spot. Crude was quoted at 58c. to 60c. and refined 65c. to 67c. per pound.

Trade Briefs

Fannin Glass & Paint Company, Ashland, Ky., has been incorporated by J. C. Viola and Joe P. Fannin.

Oswego Soy Products Corporation, Oswego, N.Y., has 144,000 shares of $1 par value common stock for public sale.

Lever Brothers Company, soap manufacturer, Cambridge, Mass., has named R. G. Campbell field supervisor in charge of "Breeze" sales.

Corn Products Refining Company has appointed William E. Hecht advertising manager. Mr. Hecht has been with the organization for twenty-three years and was formerly assistant advertising manager.

Margarin Output Larger

Margarin production during March was appreciably heavier than for the same period last year, according to statistics compiled by the Bureau of Internal Revenue:—

	Pounds—March 1947	1946
Production of uncolored oleomargarin	*65,113,958	†43,676,076
Withdrawn tax-paid	64,031,043	43,919,975
Used in Uncolored Margarin		
Butter culture	.....	272
Butter flavor	689	320
Citric acid	217	220
Coconut oil‡	1,593,365	.....
Corn oil	605,379	790,970
Cottonseed flakes	2,120	.....
Cottonseed oil	23,582,782	17,956,982
Cottonseed stearin	111	.....
Derivative of glycerin	109,421	102,094
Diacetyl	237	91
Estearin	.....	10,468
Lecithin	79,937	53,554
Milk	11,124,365	7,495,012
Monostearin	69,474	36,281
Neutral lard	239,686	137,243
Oleo oil	306,960	191,646
Oleo stearin	352,549	198,397
Oleo stock	56,265	25,625
Peanut oil	2,692,834	1,811,594
Salt	2,032,170	1,342,355
Soda, benzoate of	45,403	30,661
Soybean oil	24,020,869	14,308,332
Soybean stearin	17,460	.....
Tallow	.....	1,800
Vitamin concentrate	10,471	7,520
Total	66,942,764	44,501,437
Production of colored oleomargarin	4,800,273	3,000,830
Withdrawn tax-paid	2,895,134	1,589,834
Used in Colored Margarin		
Butter flavor	106	11
Coconut oil‡	1,493,267	.....
Color	3,721	3,051
Corn oil	11,655	5,461
Cottonseed flakes	735	.....
Cottonseed oil	891,478	533,570
Derivative of glycerin	9,413	8,831
Diacetyl	8	2
Estearin	.....	242
Lecithin	4,506	3,667
Milk	785,691	496,544
Monostearin	1,316	536
Neutral lard	14,246	30,531
Oleo oil	11,798	20,065
Oleo stock	850	8,400
Peanut oil	95,580	27,827
Salt	156,060	96,665
Soda, benzoate of	2,325	1,902
Soybean oil	1,410,346	1,807,958
Vitamin concentrate	591	430
Total	4,893,692	3,045,693

* Of the amount produced, 3,726 pounds were reworked.

† Of the amount produced, 6,030 pounds were reworked.

‡ 1,430,717 pounds of this oil used in oleomargarin manufactured for export by, or from, the United States, and 1,655,915 pounds used in the production of the product for domestic consumption.

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4—Vallez Filters; 20 series.

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10—Copper Columns from 18" dia. to 84" dia., with or without accessories.

1—Stainless Still Pot, 9' x 7'5", with S.S. coils.

5—Copper Vacuum Pans, 100 gal. to 2,000 gal.

8—Shriver and Sperry Filter Presses, 12", 18" and 24".

3—Sperry Filter Presses — Rubber Plates and Frames, 24" and 30", 4 eye, closed delivery.

4—Shriver 42" Cast Iron and Wood Plate and Frame Filter Presses.

1—Rotary Indirect Heat Dryer or Sugar Granulator, 6'x20'.

6—Copper Pans for Coating, 20" to 58", belt driven.

2—Lead Lined Agitated Sulphonators, 6'6" x 5', plus 3' cone.

8—Steel Jacketed, Agitated Kettles, 100 gal. to 1,500 gal.

1—Day 40 gal. Pony Mixer.

Large Stock of Steel Batch Mixers, Ribbon Type, new or rebuilt, up to 3,000 lbs.

12—Read Mixers, Jktd., Ribbon Type, 33"x34"x72".

2—Stainless Kettles, 500 Gal. —100 P.S.I., other sizes too.

2—Mikro No. 1 Pulverizers.

22—Fitzpatrick Model D Stainless Hammer Mills, with Expl. Motors.

1—Stokes & Smith Automatic Auger Powder Filler.

4—Filler Mach. Co. S. S. Fillers, 3 to 11 Pistons.

1—Stokes No. 79D-80A Tube Filler, Closer, in Stainless Steel.

6—Stokes Rotary "D" Tablet Machines.

2—Colton Rotary 10-35 Tablet Machines.

2—Jones Soap Presses, Model E.

4—Vulcanizers or Autoclaves, 12' to 50'.

4—Ferguson Automatic Case Gluers and Sealers.

12—Wrap Around Labelers for Cans or Jars.

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1—No. 12 Sweetland, 36 iron leaves.

1—No. 10 Sweetland, 52 brass leaves.

3—Sperry, 36"x36", iron, center feed, 61 plates, each with motor driven hydraulic closing mechanism.

1—Shriver, 30"x30", iron, center feed, 46 plates, ratchet closing device.

1—Johnson, 30"x36", iron, center feed, 44 plates, double end, gear closing device.

1—Sperry, 30"x30", iron, plate and frame, closed delivery, 31 chambers.

DRYERS

2—6' dia. x 53' long LOUISVILLE ROTARY STEAM TUBE DRYERS, each with two rows of 54 tubes, 3½" and 4", gear reducer drive.

1—5 x 26 Hersey Monel-lined ROTARY HOT AIR DRYER, with Monel-lifting flights, complete with flexi'ube heating units, fan, motors, hoods, cyclone.

1—B. & C. 36" x 84" Atmospheric DOUBLE DRUM DRYER, Complete.

2—Buffalo 32" x 72" Atmospheric DOUBLE DRUM DRYERS, M.D.

1—A. N. 4' dia. x 9' long atmospheric DOUBLE DRUM DRYER complete.

1—B. & C. 28" d'a. x 60" face Atmospheric DOUBLE DRUM DRYER, complete.

2—Direct heat ROTARY DRYERS; 5' x 30', 6' x 35'.

1—6' x 35' Louisville Direct Heat single shell ROTARY DRYER.

2—50" dia. x 14' Direct Heat ROTARY DRYERS, ½ shells, with furnaces, semi-portable, all mounted on 1 beams.

1—6' x 60 ROTARY DRYER.

ROTARY VACUUM DRYERS

3—5'x33' J. P. Devine ROTARY VACUUM DRYERS, welded jackets, roller bearings, speed reducer drive.

1—5'x33' J. P. Devine, riveted jacketed, ROTARY VACUUM DRYER, roller bearings, arranged for belt drive.

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Aldrich Pump Co. Vertical Triplex HYDRAULIC PUMPS, 2¾"x8", equipped with Herringbone Gears, 67.5 gpm. Maximum pressure for intermittent duty 2,200 lbs., for continuous duty 1,800 lbs. Pumps and motor mounted on common bed plate.

Motors are 70 HP, 3/60/220-440 volts, 1740 RPM. Complete with starting panel, consisting of G. E. motorstarter switch, push button control, square "D" Switch, and capacitator.

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2—MODEL E-35 B.&W. COAL PULVERIZERS, capacity 6 to 12,000 lbs. per hour, depending on fineness.

3—OLIVER ROTARY CONTINUOUS VACUUM FILTERS, 11'6" dia. x 18' face, each 640 sq. ft. filtering area, complete.

2—AMERICAN ROTARY CONTINUOUS VACUUM FILTERS, 12'6" dia. x 23' long, 10 discs, 2,000 sq. ft. filtering area each.

2—VACUUM PUMPS, Chicago Pneumatic, duplex, 36x36x13", each with direct connected 250 H.P. 3/60/440, 225 RPM. synchronous motor with exciter, starting equipment, etc. 6760 CFM capacity.

2—Ingersoll Rand DRY VACUUM PUMPS, 31x13", Type ES, 2830 CFM with V-belt drives.

2—GOSLIN BIRMINGHAM EVAPORATORS, 6 effects, each evaporator having total heating surface of 58,200 sq. ft. Electronite steel tubes; welded steel bodies. Each evaporator designed to evaporate 172,230 lbs. of water per hour from a feed of 586,000 lbs. per hour of soda-alumina solution. Complete with condensers, pumps, motors, controls, instruments, etc.

1—SWENSON QUADRUPLE EFFECT EVAPORATOR, same construction as 6-effect evaporators above. Evaporating capacity 60,000 lbs. of water per hour.

1—No. 30 NF ALL-STEEL WILLIAMS HAMMER MILL, 17x30" feed opening, manganese fitted, 100 H.P. required. Weight, 9,000 lbs.

2—MODEL 5040 DIXIE HAMMER MILLS, "Mogul".

3—2 ROLL SAW TOOTH CRUSHERS, No. 10 EC, made by Sprout-Waldron & Co., Muncy, Pa. 16x16" feed opening, 8-15 H.P. required.

4—DORR CLASSIFIERS, 4' x 20'6", 2-deck, double rake, 3 H.P. motors.

10—DORRCO SUCTION PUMPS. Type VM, 6 duplex.

2—MORRIS CENTRIFUGAL PUMPS. Size 4-S, 300 GPM, 90' head.

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9—55' dia. x 50' high, 29/32" thick. Offered with or without 6-compartment Dorr thickener mechanisms.

6—35' dia. x 21', welded, cone bottoms, 5/8" walls, equipped with Dorr thickener mechanisms.

1—50' dia. x 30', 5/8" walls.

4—30' dia. x 20', 14,140 cu. ft. volume.

1—10' dia. x 27' Horizontal, lead lined, for acid storage.

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1—Lummus CONTINUOUS DISTILLING UNIT, capacity approx. 5,000 wine gal. of 190 proof alcohol per 24 hrs.

Unit consists of a Beer Still, Aldehyde Column, Rectifying Column, with Dephlegmator, Condensers, Coolers, Pressure Regulating Valves.

Still set up as operated.

4—Fletcher 40" solid stainless steel Basket CENTRIFUGALS, direct motor driven with two speed motors with skimmers and unloading plows.

1—Buffalo Atmospheric DOUBLE DRUM DRYER, 42" x 100".

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1—Graver Electric Roller Hearth Furnace, 1000° C.
1—Graver Belt Type Electric Furnace, 1850° F.
1—Westinghouse Roller Hearth Electric Furnace, 750° C.
ALL FURNACES complete with Heat Controls, Temperature Regulators, Recorders, etc.
2—No. 7 Rotex Single Deck Sifters, 40"x84", motor driven with totally enclosed motors.
4—Micro-Pulverizers, No. 1SH, each with two totally enclosed fan-cooled motors.
1—Battery of 2 Fletcher 40" rubber covered, motor driven Centrifugals, suspended type, bottom discharge.
1—Battery of three 1,200 gallon Mixing Tanks, each with heavy bronze paddle agitators, driven by 25 HP gear head, totally enclosed fan-cooled motor.
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MOTORS—1 to 50 HP Explosion-Proof and totally enclosed fan-cooled.
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Munson & Gemco CONICAL BLENDERS.
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2—Pfaudler 1,000 gal. Open Top Glass-Lined Jacketed Kettles.
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1—No. 40 Duriron Centrifugal Pump with 10 HP motor.
3—10,000 gal. Closed Vertical Storage Tanks.
2—"U" shaped 10,000 gal. Storage Tanks.
3—6' x 11' Vertical Storage Tanks.
2—5½' x 6' Steel Tanks with steam coils.
20—Steel Troughs, 30" x 24" x 8', mounted on casters.
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3—40" Cast Iron Plate and Frame Filter Presses, 44 chambers.
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1—No. 2 Sweetland Filter, 316 SS.
1—No. 10 Sweetland, 54 leaves.
4—No. 2B Vallez Filters, rubber-lined.

2—Bird 40" solid basket Centrifugals, 1,800 RPM.
3—ATM 40" suspended Centrifugals, Bronze Perf. Baskets.
1—Fletcher 30" suspended Centrifugal, solid steel Basket.
1—Tolhurst 32" suspended Centrifugal, steel perf. Basket.
1—Tolhurst 32" rubber-lined suspended type Centrifugal.
3—Sharples No. 16 stainless steel Vaportite Centrifuges.

1—Raymond No. 00 Screen Mill, brand new, with 10 HP explosion-proof motor.
1—Hardinge 36"x24" conical Ball Mill.
1—Jeffrey Style A Hammer Mill, 24"x18".
5—Bantam and 1-SI Mikro Pulverizers, motor driven.
3—Ball & Jewell Rotary Cutters, No. 0 and No. 1.

6—Baker Perkins and Readco 100 gal. Jacketed Mixers.
10—1,000 and 2,000 lb. Powder Mixers, brand new.
2—Robinson and Wolf 3,000 lb. Powder Mixers.

TABLET MACHINES

6—Stokes "T", 1¼".
2—Stokes "R", 2½".
2—Stokes Rotary DD2, 1¼".
10—Stokes Rotary D4, 31 32".
1—Colton Rotary, 16-35, ¾".
1—Mulford Single Punch, 1¼".
6—Stokes "F", ¾".
5—Colton Single Punch, ⅝".
2—Stokes Rotary B, ⅝".
2—Colton Rotary, No. 2.
2—Colton, No. 4, 1".
1—Colton Rotary, No. 3, 1".

1—Kiefer Vari-Visco Filling Machine.
3—Buflovak 6' dia. vacuum and atmospheric Crystallizers.
2—Stokes Laboratory Vacuum Shelf Dryers.
4—Oliver 8'x6' Rotary Hopper Dewaterers.
1—3-truck Dryer, app. 600 sq. ft.
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5—Model "H" Battle Creek Wrapping Machines, with photo-electric control. Adjustable from 1"x5¾"x2" to 4"x11½"x5".
1—J. H. Day No. 10 Imperial Double Arm Mixer, 30 gal.
2—80 and 100 gal. Lead Mixers.
1—Patterson 3'x6' rubber-lined Mixing Tank.
3—Vertical Mixers, 20 and 80 qt.

2—Dopp 150 gal. Jacketed Agitated Kettles, never used.
1—100 gal. Steel Jacketed Agitated Kettle, with reducer and motor.
10—Brand new stainless steel Jacketed Kettles, 60 to 300 gals.
8—Brand new stainless steel Tanks, 100 to 1,500 gals.
2—Copper Coating Pans, 30".

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LIQUIDATION!

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4—James Hunter Saturating Tanks, rubber lined.
1—5,000 Gallon Steel Storage Tank.
4—8,000 Gallon Steel Pressure Tanks.

1—500 Gallon Devine High Pressure Autoclave.
4—H&T Water Filters, 8' x 20'.
3—Turbo Generators, from 400 KW to 2750 KW.
75—Ton Cast Iron Pipe 8" to 18".
4—High Pressure Water Tube Boilers from 250 HP to 600 HP.
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14—Tolhurst 40" Suspended Type Centrifugals, Motor Driven, Bottom Discharge.

10—Sperry 32" Iron Filter Presses.

3—Baker Perkins heavy duty Jack. Mixers, 100, 20 & 9 gals.
2—Devine No. 3 late type Vac. Shelf Dryers, Elec. Heated.
2—Stokes RD4 Rotary Tablet Machines, 16 die openings 1 3/16" dia. Also ⅝" dia.
11—Sharples No. 6A Stainless Oil Purifiers, latest type, 2 H.P., Motor Driven.
4—Rotex Sifters, 20"x81", 3 deck.
3—Robinson Unique Dry Mixers, 600 lb.
1—Chrystie 80'x45' Rotary Dryer.
1—Oliver Rot. Vac. Filter, 8'x10'.
1—Hardinge 3'x8' Conical Ball mill.
1—Tyler-Hummer 3' x 6' surface screen.
75—36" x 36" Cast Iron Filter Press Plates and Frames.
1—Stokes No. 149 B Vac. Pump.
1—Gruendler 7" x 10" Jaw Crusher.
1—Dings Magnetic Separator, 12" Magnetic Pulley.
1—Sturtevant 36" Rock Emery Mill.
1—Sharples No. 6 Centrifuge.
6—Pfaudler Glass Lined Jack. Agit. Kettles, 350, 400, 500 gals.
10—Stainless steel, jacketed Kettles, new & used, 40, 60, 80 & 375 gals., some agitated.
4—Aluminum jack. Kettles, 60, 80 & 100 gals.
18—Copper jack. Kettles, 2, 20, 50, 75, 100, 250 & 350 gals., some agitated.
1—Abbe 2 Jar Mill, 2 gal. Jars.
1—Hammer Mill, 7½ H.P.
1—Williams No. 00 Hammer Mill.
1—Williams No. 3 "Regular" type Hammer Mill.
1—Stedman 32" Single Roll Crusher.
1—Jeffrey 18" x 48" Single Deck Conveyor Screen.
25—New Stainless Steel Tanks, 100 to 1,000 gals.
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New 40 gal. Pony Mixers.
4—Day Pot Mills, 24" x 32" dia.
12—Filter Presses, Iron, Wood and Rubber, 18" to 42" sq.
8—Centrifugals, 20", 26", 30" & 40".
4—No. 0000 and No. 0 Raymond Mills.
10—Closed steel Kettles & Stills, up to 1,000 gals.
1—250 gal. lead lined Kettle.
1—700 gal. steel, copper lined vac. Filter Tank.
1—Dopp 50 gal. jacketed Kettle.
1—Blystone 2,000 lb. horiz. Spiral & Paddles Steel Mixer.
6—Horiz. Mixers, 20 to 250 gal., single & double arm.
1—Faust 150 gal. Spiral Mixer.
2—Devine & Worth. Horiz. Vac. Pumps, 12" x 6", 8" x 6" x 4" x 6".
2—Worthington 12" x 12" x 12" Vac. Pumps.
2—DeLaval Multiple Clarifiers, 300 & 301.
2—Rotary Screens, 18" x 72".
6—Attrition Mills & Disc Grinders, up to 22".
1—Double Stand Steel 4-Roller Mill, 7" x 20".
10—Iron Mills, 12", 14" & 18".
8—Stone Mills, 8" to 22".
6—Lead & Paste Mixers to 300 gals.
3—Varnish Kettles, 200 gals.
1—Shutz-O'Neill 20" Pulverizer.
2—Double Roll Crushers.
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20—Rotary Centrif. & Triplex Pumps.
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Foreign Sales Leads

—*Continued from page 5*

Ion exchangers, and ion exchange resins, Brussels, Belgium (U-2).

Mineral thinner, London, England (U-4).

Molding powders, Stockholm, Sweden (U-12).

Oils and fats, Prague, Czechoslovakia (U-14).

Pharmaceutical products, Genoa, Italy (U-7).

Pigments, London, England (U-4).

Potassium permanganate, Amsterdam, Holland (U-6).

Rosin, Amsterdam, Holland (U-8); Prague, Czechoslovakia (U-14).

Saccharin, Stockholm, Sweden (U-12).

Synthetic resins, London, England (U-4).

Water softeners, Brussels, Belgium (U-2).

Waxes, Toronto, Canada (U - 9), Prague, Czechoslovakia (U-14).

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1—Bagley & Sewall Double-Drum Dryer, 36"x72", complete.

1—Louisville Rotary Steam Tube Dryer, 6'x50'.
15—Sharples Super Pressurite Centrifuges, with 3 HP Explosion-Proof Motors.
2—Pfaudler Stainless Steel Jacketed Tanks, 13,500 gals.
13—Stainless Steel Jacketed Kettles, 80 gals. (new).
4—Stainless Steel Jacketed Kettles, 60 gals. (new).
2—Stainless Steel Jacketed Kettles, 30 gals. (new).
16—Ingersoll-Rand Heat Exchangers, 68 sq. ft. to 760 sq. ft. (new).
2—Baker Perkins Stainless Steel Jacketed Mixers, Heavy Duty, Geared Both Ends, Sigma Blades, 100 gals.
GELBCO Powder Mixers, 2,000 lb. capacities.

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1—No. 12 Sweetland Filter Press, 36 leaves, 4" centers.
1—4 ft. dia. x 32 ft. long Rotary Dryer, drive and motor.
1—4 ft. dia. x 9 ft. long Atmospheric Drum Dryer.
1—4 ft. dia. x 12 ft. long Atmospheric Drum Dryer.
1—No. 1 Raymond Pulverizer, Cyclone, Blower & Motors.
1—No. 1 Gruendler Pulverizer & 7½ HP motor.
1—No. 3 Mikro Pulverizer & Motors.
1—No. 2 Mikro Pulverizer & Motors.
1—5 ft. Gayco Separator & 5 HP motor.
1—30" Raymond Separator & 3 HP Motor.
1—Model 100 Sprout Waldron "V" style Mixer.
2—24" x 24" Sperry Plate & Frame Iron filter presses.
1—30" x 30" Shriver Plate and frame Wood Filter Press.
1—6 ft. dia. x 6 ft. long Thropp Silex Lined Pebble Mill.
1—6 ft. dia. x 5 ft. long Porcelain Lined Pebble Mill.

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5—Day pony mixers from 8 gallon to 20 gallon.
1—Brand new Shriver 30" stainless steel plate and frame, C. D., filter press.
2—New Struther-Wells, 150 gallon jacketed, agitated reactors (stainless steel).
1—Brand new Baker Perkins, size 15 Uni-Dor mixer, jacketed sigma blade, geared both ends, capacity 20 cu. ft., reversible hydraulic pump.
1—Brand new standard Knapp No. 429 carton gluer and sealer, complete with compression belt.

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1—Dopp 125 gal. Steam Jacketed Kettle with agitator.
1—Stedman 40" Cage Disintegrator.
Stainless Steel Vert. Tank, 7' dia. x 10', No. 430 Chrome.
1—Buflovak Impregnating Tank, 42" x 52", steam jacketed.
New Elec. Immersion Heaters, stainless, 500 watt, 115 volt. $15.00 ea.
Copper Tank with Agitator and Coil, 66" dia. x 7' high.
54—Pumps, Steam and Electric, made of iron, bronze, stainless steel.
1—DeLaval Lab. Separator with ½ H.P. Motor.
1—18-spout Karl Kiefer Rotary Filler.
10—New Sharples Oil Purifiers.
6—Stokes Rotary Tablet Machines. Model RD-4.
6—New Cleven Can Filling Machines.

SPECIAL
New Dry Powder Mixer, ribbon type, 8 cu. ft. & 24 cu. ft.

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European representative: Qualified pharmacist, English diploma (M. P. S.), long experience, residing southern France, wants connection as French or European representative with American firm. Fluent knowledge of English, French, German, Polish. Also thorough familiarity with American, English and Continental pharmaceutical products, chemicals and toilet preparations. William Gastman, 13 rue Lespy, Pau (B. P.), France.

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For Sale: Medicine business, 4-story brick factory 20,000 sq. ft.; 3-story brick building 6,000 sq. ft.; Philadelphia area. P. R. S. Lines. Vegetable laxative with mild antiacid; other cough syrup; national distribution, long established. Now family managed. OPD 741.

EQUIPMENT OFFERED

For sale—New 150 gal. post mixer—immediate delivery—used 18 in. center feed filter press, 40 plates—new dry powder mixer—used aluminum tanks, 950 gals., 4 ft. in dia. x 10 high. Allied Steel & Equipment Company, 1007 Springfield avenue, Irvington, N. J. Phone: ESsex 3-4873.

For Sale: Top and bottom seal and cartoning machines. variable speed drive, 25 to 57 seal end cartons per minute, with or without automatically coupled and inter-locked auger type fillers, in excellent condition. Subject to prior sale. The FR Corporation, 951 Brook Avenue, N. Y. 56. JErome 7-4600.

25—New Groen Stainless Jacketed Kettles, 20 to 300 gals.

60—New Stainless Tanks, Storage & Mixing, 30 to 6,000 gals.
4—Cappers, Screw Auto. "Tite Cap" New Single Hd.
2—Cappers, Screw Auto. 6 Hd. Pneu. Scale.
4—Mixers, Powder, 400-700 lbs.
4—Mills, Ross & Kent, paint 16" x 40" long rolls, water cooled.
1—Mill, U. S. Colloid, Stainless.
2—Mills, Williams Hammer, No. 1.
12—Blenders, Powder, "Gem'co," 25, 50, 300 & 500 lbs.

2—Clippers & Crimpers, Colton No. 2.

9—Bottle Blowers, Pneu. Scale Auto., Inverted Type.
1—Cartoner, Jones, Auto.
2—Centrifuges, Sharples Pressure-tite, No. 6.
1—Column, Alcoholizer, 14' high, 12 Plates.
1—Compressor, Ammonia, 3 x 3.
5—Dryers, Witteman Double Drum, 22 x 38.
1—Dryer, Louisville Rotary Steam Tube, 6' x 30'.
10—Labelers, Semi Auto. World, Erwold & National.

12—Labelers, Auto. Rotary, World, O & J, Oslund.

1—Filler, Karl Kiefer, Viscose, 4 Hd., Piston.
1—Filler, Triangle "Electri Pak," Bulk or Powder.
4—Fillers, Vacuum 8, 10 & 12 spt., Stainless & Bronze.
2—Pumps, Ing. Rand Bronze Centrif., 20 HP Motor, capacity 200 GPM at 100 lbs. press.
24—Pumps, Duriron & Nash Glass.
23—Presses, Tablet, Stokes & Colton Rotary & Single Punch.
1—Filter, Kelly Press, 450 sq. ft.

1—Still, Frederking, C.I., 1,500 gals.

1—Still, Copper Vacuum, 135 gals.
5—Tanks, Copper, 1,000 gal., Closed.
5—Tanks, Steel, Half-Jacketed, Agitated & good for Vacuum, 100 gal.
2—Tanks, Steel Jacketed, 9½' dia. x 3' deep with bottom scraping Agitator.
1—Tank, Stainless Lined, 1,800 gals., good for high pressure.
28—Tanks, Aluminum, Cap. 98 gals & 150 gals.

2—Tanks, Pfaudler, 1,000 gals., glass-lined, jacketed & agitated.

1,000'—New, Solid Roller Conveyors & Skate Wheel. Mathews.

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